BEST AVAILABLE COPY

```
March 10, 2006, 21:37:26; Search time 357.113 Seconds (without alignments) 10313.561 Million cell updates/sec
                                                                                                                                                                                                                                       1 ggatccactagtaacggccg.......cgctcgagcatgcatctaga 2072
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                           OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                            IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                         US-10-755-466-1
2072
                                                                                                                                                                                             Title:
Perfect score:
                                                                                                                                                                                                                                                                            Scoring table:
                                                                                                                                                                                                                                                                                                                                     Searched:
                                                                                                                                                                                                                                     Sequence:
                                                                                                                  Run on:
```

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries Minimum DB seq length: 0 Maximum DB seq length: 2000000000

2606114

Total number of hits satisfying chosen parameters:

1303057 seqs, 888780828 residues

Issued Patents Nh:\*

1: /cgn2\_6/ptodata/1/ina/1\_COMB.seq:\*

2: /cgn2\_6/ptodata/1/ina/5\_COMB.seq:\*

3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq:\*

4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq:\*

5: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq:\*

6: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq:\*

7: /cgn2\_6/ptodata/1/ina/PCOMB.seq:\*

8: /cgn2\_6/ptodata/1/ina/PP\_COMB.seq:\*

9: /cgn2\_6/ptodata/1/ina/RE\_COMB.seq:\* Database:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

	Description	Sequence 1, Appli	Sequence 3, Appli			_		Sequence 3502, Ap	•••	Sequence 12633, A	Sequence 3623, Ap	_	169	Sequence 14715, A	Sequence 6208, Ap	.,	Sequence 10, Appl	• •	Sequence 530, App	Sequence 49, Appl	Sequence 59256, A	Sequence 13463, A	Sequence 1002, Ap	Sequence 1002, Ap	Sequence 1002, Ap	
	· QI	US-09-786-681A-1	US-09-786-681A-3	US-09-621-976-18829	US-09-513-999C-3708	US-09-270-767-679	US-09-270-767-15961	US-09-513-999C-3502	US-09-270-767-28434	US-09-270-767-12633	US-09-949-016-3623	·US-08-959-004-6	US-10-104-047-1699	US-09-270-767-14715	US-09-248-796A-6208	US-09-949-016-1721	US-09-495-050A-10	US-09-313-294A-2292	US-09-385-982-530	US-09-490-609B-49	US-09-949-016-59256	US-09-949-016-13463	US-09-702-705-1002	US-09-736-457-1002	US-09-614-124B-1002	
	. B		m	m	٣	m	m	m	ო	m	m	m	ო	ო	ო	ო	ო	٣	m	ო	ო	٣	М	m	m	
	Length	2072	1827	444	440	771	771	433	571	1151	2391	2805	1878	995	726	499	768	262	169	227	601	15148	302	302	302	
ķ.	Query Match	100.0	87.5	21.4	18.5	17.8	17.8	17.6	11.1	11.1	11.0	11.0	10.9	7.8	6.4	5.9	5.4	4.9	4.4	3.9	3.4	3.4	3.1	3.1	3.1	
	Score	2072	1814	444	383.4	369.8	369.8	364.8	230.8	230.8	227.6	227.6	226	161.2	132.8	122	112.4	101	91.6	79.8	70	70	64.6	64.6	64.6	
	Result No.		7	m	4	υ N	v	7	80	σ	10	11	12	. 13	14	c 15	16	17	c 18	c 13	c 50	c 21	C 22	c 23	c 24	
	-																									

Sequence 1002, Ap Sequence 1002, Ap Sequence 1002, Ap Sequence 208, App Sequence 208, App Sequence 208, App Sequence 35, Appl Sequence 227, App Sequence 227, App Sequence 527, App Sequence 53, Appl Sequence 53, Appl Sequence 53, Appl Sequence 1507, App Sequence 1507, Appl Sequence 1507, Appl Sequence 1507, Appl Sequence 1507, Appl Sequence 1507, Appl Sequence 1507, Appl Sequence 1507, Appl	Sequence 42, Appl Sequence 42, Appl
US-09-671-325-1002 US-09-658-824-1002 US-00-017-754-1002 US-09-651-563-1002 US-09-313-2994A-4533 US-09-313-2994A-4533 US-09-80-72-35 US-09-80-72-35 US-09-80-553-10 US-09-80-595-6 US-09-774-639-106 US-09-774-639-106 US-08-774-639-106 US-08-732-873-105 US-08-732-873-105 US-08-74-633-106 US-08-232-873-106 US-08-332-873-106 US-08-332-873-106 US-08-332-873-106 US-08-332-873-106 US-08-332-873-106 US-08-332-873-106 US-08-332-873-106 US-08-332-873-106 US-08-332-873-106 US-08-332-873-106 US-08-332-873-106	US-09-442-054A-42 US-09-442-054A-42
	. m m
302 302 302 302 431 273 665 1075 865 1076 865 1077 4586 4586 4586 4586 4586 264206	196
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	20.0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	51.2
00000000000000000000000000000000000000	444
00000 00 0000	υ
•	

## ALIGNMENTS

TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES  FILE REPERENCE: 020-04827P  CURRENT PELING DATE: 2001-01-24  CURRENT PELING DATE: 2001-01-24  CURRENT FILING DATE: 2001-01-24  SEQ ID NO: 1  LENGTH: 2072  TYPE: DNA  ORGANISM: Homo sapiens  FEATURE:  NAME/KEY:  LOCATION: (49)(1794)  -09-786-681A-1  QUELY MATCH  GAATCCACTAGTAACGGCCCCCACTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG
Oy 241 AGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTT 300
241 AGIAICAGICATIACCATGAAACICIGGGAAAAGCACTICAAGGGGTIGAATIGGAATTI

ò

		TO CHARLES A CHA
q	301 AGTGGTCTGGATATTAAATTTAAAGATGTGATGTGATGCCACCCAC	DD 1381 CIGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
ර යි	361 TTAGATAAAGAAAAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAG 420 	1441 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATTATCTGTG
δi	ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAATGGAGAA	Oy 1501 TGCATTGTGACTGTGTGTGTGTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1560 
å ð	421 AIGTACATAGATGATTTACCAATATGGGGGTATTGTTGGTGAGGCTGATGAAAATGGAAA 480 481 GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATGGAATTGTT 540	
qq	481 GATTACTATCTATCGACCTATAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 540	
ඊ අි	541 GATGTTAATCTAACTGAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 600 	
දු දු	601 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 660 	TACTITIGATATIATATICACOGIATITIAGA CAGCOTIGAGGATAATOTICAGGATIGATI
ò á	661 CTTGATCCGTCCTTTTTCAACATCGGATTCGTTTTCAATTTTCAACTCCTTCATG 720	OY 1741 TACATGGGAACAACTGCCTTTGTCCGAAAATCTATACTAATGTGAAAATTGACTAGAGA 1800 . 
3 & 5	ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAGA	Oy 1801 CCCAAGAAAACCTGGAACTTTGGATCAATTTTTTCATAGGGTGGAACTTGCACAGC 1860 
8 6	TATGCTCGCTACAGTAAAGAGGAAGAATGGATGATATGGATAGATGATATGGATGAAGACCTAGGAGATGAA 	OY 1861 AAAACAAACGCAAGAAGAGATTTGGCTTTTATTTTTTTTT
සි රි සි	TATGATGGAACAGGTGCATGGAGTGTATTTAGACCATCAGTCACCACTGATATTTATGATGATGAATGGAAACAGGTGACCATGATGTTTTATGACGAACAGAACAGCATGCAT	
ඊ සි	901 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGGTGTCTCTCATCGTTATTATTGTT 960 1	Oy 1981 TCTTGTTGCAGCTGCCACCTGTCCGGCATTCTGTCCATTGTCCCTGAGGTG 2040
& A		Oy 2041 TCASTTTGGGGCGGTCGAGCATGCATGTAGA 2072 
<u>ک</u> ۾	1021 TATGCTGCTACGTCTCCAGTGATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1080 	RESULT 2 US-09-786-681A-3 ; Sequence 3, Application US/09786681A
ඊ සි	1081 GGAAGGAGATGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTT 1140 	; Pacent No. 6692826; ; Pacent No. 100. 100. 100. 100. 100. 100. 100. 10
, & 8	1141 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 1200	; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES; ; FILE REFERENCE: 0020-487: US/09/786,681A ; CURRENT APPLICATION NUMBER: US/09/786,681A ; CURRENT FILING DATE: 2001-01-24
کم و 1		SEQ ID NOS: Patentin ve: 827
දු දු		ရှိ ဒ
δ.	GCTGTGCTTCGTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC	1.1)
면 상 •	1321 GCTGTGCCTCGTATACCGGAGAAAATGGTTCATGGGGGCCTGCGGTTATTGTTTGC 1380 1381 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1440	Query Match 87.5%; Score 1814; DB 3; Length 1827; Best Local Similarity 100.0%; Pred. No. 0; Matches 1814; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

us-10-755-466-1.rni

Db 1094	Qy         1441 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCTGGTGCTGGTGCTGTTATCCTG         1500           1394 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTTATCCTG         1453           Qy         1501 TGCATTGTGACTGTTGTGTGGCACATATTTTCTACTAAATGCAGAAGAT         1560           Db         1454 TGCATTGTGACTGTGTGACTATTGTGTGCACATATTTCTACTAAATGCAGAAGAT         1560           Qy         1561 TACCGGTGGCAATGGACAAGTTTTCTTCTTGTGAACTTAACATG         1620           Db         1514 TACCGGTGGCAATGGACAAGTTTTCTTCTTGCTGCAATTAACATG         1573           Qy         1621 TATTCCTTTTACTACTATTTTTCAAAACAAAGAATGTAATTTCAAACATCATTT         1680           Db         1574 TATTCCTTTTACTACTATTTTTTCAAAACAAAGAATGTATTTCAAACATCATTT         1680           Db         1574 TATTCCTTTTACTACTATTTTTTCAAAACAAAGAATGTATTTCAAACATCATTT         1680	Qy         1681 TACTTIGGATATATGGGGGGTATTTAGGACAGGCTTGGGGGATAGT         1740           Db         1634 TACTTIGGATATATGGCGGTATTTAGCACAGCCTTGGGGGATAGTTGGGGGTTGGT         1740           Db         1741 TACATGGAACAAGTGCCTTTGTCCGAAAATCTATGTGAAAATTGACTAGAGT         1693           Db         1694 TACATGGGAACAAGTGCCTTTGTCCGAAAATCTATGATAAATTGACTAGAGA         1800           Db         1694 TACATGGGAACAAGTGCCTTTGTCCGAAAAATTACTATTGAAAATTGACTAGAGA         1753           Qy         1801 HIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	RESULT 3 US-09-621-976-18829 i Sequence 18829, Application US/09621976 j Patent No. 6639063 j GENERAL INFORMATION; j APPLICANT: Dumas Milne Edwards, J.B. APPLICANT: Glordano, J.Y. TITLE OF INVENTION: ESTS and Encoded Human Proteins. FILE REFERENCE: GENSET.054PR2 CURRENT APPLICATION NUMBER: US/09/621,976 CURRENT PILING DATE: 2000-07-21 NUMBER OF ENG ID NOS: 19335 SOFTWARE: Patent.pm SEQ ID NO 18829 LENGTH: 444  TYPE: DNA CREATE: Homo sapiens US-09-621-976-18829 US-09-621-976-18829
61 GCGGCCGCCGCGCTGTGGCTGCTGCTGCTGCTGCCCCGGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGGCCGCG	TTAGATAAAGAAAAGAGAGAGGATTTGTATATGCCATAAAAATCATTACTGGTACCAG  [	TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATTGACAAATATTCATATTCAGTAAAATGTGAAATGTGAAATTTGAAGATTTGACAAATATTCATATTCAGTAAAATGTGAAATTTTGAAGATTTGACAATTTTGACAATTTTGACAATTTTGACAATTTTTTTT	

```
NAME/KEY: misc feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   933
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1052
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠ
                                                                                                                             610 GTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCG 669
                                                                                                                                                    61 GTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCG 120
                                                                                                                                                                                                     670 TCCTTTTTCAACATCGGATTCATTGGTTTTTCAATTTTCAACTCCTTCATGATGGTGATC 729
                                                                                                                                                                                                                                          121 TCCTTTTTTCAACATCGGATTCATTGGTTTTTCAATTTTTCAACTCCTTCATGATGGTGATC 180
                                                                                                                                                                                                                                                                                                                                                         849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 3708, Application US/09513999C
; Sequence 3708, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION;
; APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Duclert, A.
; APPLICANT: Duclert, A.;
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
Patent No. 6783961
; FILE REFERENCE: 59.US.TRG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT PLING DATE: 1999-02-26
; CURRENT FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOGTWARE: Patent.pm
; SEQ ID NO 3708
; LENGTH: 440
                                                                                                                                                                                                                                                                                                                  181 Trchrichtechrichardaritriaardacarriaagaaaarriaaraaraarriaarcerceg 240
                                                                                                                                                                                                                                                                                                                                                                                              850 AAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTGTG 909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301 AAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            910 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATA 969
                                                                                         9
                                                                                                                                                                                                                                                                                                                                                         550 CTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTCA
                                                                                                                                                                                                                                                                               730 TICTIGGIGGCTTAGITICAATGATTTAATGAGAACATTAAGAAAAGATTATGCTCGG
                 Gaps
                 ö
                 Indels
100.0%; Pred. No. 1.5e-93; ative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      970 GAAGATTTATATACTGAGAGGGGA 993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       421 GAAGATTTATATACTGAGAGGGGA 444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
NAME/KEY: misc_feature
LOCATION: 162
OTHER INFORMATION: k=g or t
Best Local Similarity 100.0
Matches 444; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: m=a or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OTHER INFORMATION: 8=g or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
NAME/KEY: CDS
LOCATION: 180..440
FEATURE:
NAME/KEY: misc_feature
LOCATION: 151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: misc_feature
LOCATION: 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-513-999C-3708
                                                                                                                             8
                                                                                                                                                              g
                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                임
```

```
ATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCTACGTCT-CCAGTGAATGGTTATT 1051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                242 TAGACCATCAAGTCACCCACTGATATTTTCCTCTGATTGGTTCTGGATGTCAGATATT 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 TIGAAGATCGATITGACAAATAICTIGATCCGTCCTTTTTTCAACATCGGATTCATTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      758 TAATGAGAACATTAAGAAAAG----ATTÅTGCTCGGTACAGTAAAGAGGAAGAATGGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              814 GAT-ATGGATAGAGACCTAGGAGATGAATATGGATGGAAACAGGTGCATGGAGATGTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TAGACCATCAAGTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                638 TIGAAGAICGAITIGACAAAIAICTIGAICCGICCTITITICAACAICGGAITCAITGGI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              698 TITCAATITICAACTCCTTCATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          •
•
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 18.5%; Score 383.4; DB 3; Length 440; Best Local Similarity 95.7%; Pred. No. 1.8e-79; Matches 420; Conservative 5; Mismatches 8; Indels 6
                                                                                                                                                                                                                                                                                                                                                PEATURE:

NAME/KEY: UNSURE

LOCATION: 2

OTHER INFORMATION: Xaa=Lys or Met or Arg or Thr

PEATURE:

NAME/KEY: UNSURE

LOCATION: 55

OTHER INFORMATION: Xaa=Ala or Asp or Gly or Vail

PEATURE:

NAME/KEY: UNSURE

LOCATION: 73

OTHER INFORMATION: Xaa=Ala or Asp

PEATURE:

LOCATION: 73

OTHER INFORMATION: Xaa=Lys or Thr

JOCATION: 74

OTHER INFORMATION: Xaa=Lys or Thr

US-09-513-999C-3708
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TIGGAGGAAGICIGIAIGC 1070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TIGGAGGAAGICIGIAIGC 440
                                                                                                                                                                               g, c or
                       ģ
                                   FEATURE: misc feature LOCATION: 323 OTHER INFORMATION: w=a or
                                                                                                                                                                                                                                        LOCATION: 397 —
OTHER INFORMATION: m=a or
FEATURE:
                                                                                                                                                                                                                                                                                                 NAME/KEY: misc_feature
LOCATION: 400
OTHER INFORMATION: m=a or
                                                                                                                                                        LOCATION: 343
OTHER INFORMATION: n=a,
LOCATION: 184
OTHER INFORMATION: n=a,
                                                                                                                                                                                                                 NAME/KEY: misc_feature
LOCATION: 397
                                                                                                                                       NAME/KEY: misc_feature
```

```
셤
                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a. 장
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        970 GAAGATTTATATATACTGAGAGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCT 1029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .210 ATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACA 1269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1270 ATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCT 1329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1150 TTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACA 1209
                                                                                                                                                                                                                                                                                                                                                                     646
                                                                                                                                                                                                                                                                                                                                                                                                789
                                                                                                                                                                                                                                                                                                             765 GTCAACTGGAAGCCCAGCAAGGTGGAGTTCAAGAATCGATTCGACAAGTACCTGGATCCC 706
                                                                                                                                                                                                                                                                                                                                          729
                                                                                                                                                                                                                                                                                                                                                                                                                         Tricingargastricarcarcarcarcarscanscances accasascarrarscass 586
                                                                                                                                                                                                                                                                                                                                                                                                                                                        849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            850 AAACAGGIGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTG 909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 910 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTGTTGCAATGATA 969
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  405 GSTGAATTGTACACGGAACGCGGCTCCATGCTGCCACGGCTATATTTGTGTATGCCGCC 346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          345 ACCTCACCAATCAATGGATACTTTGGAGGATCGCTCTATGCCCGCCTGGGTGGACGCATG 286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       465 GTGGGCGCTGGATACCAACTGATTTCGGTTGTATTCTGTGTGATCATGTTCGCCATAGTT 406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   46
Sequence 679, Application US/09270767
Patent No. 6703491
Patent No. 6703491
Patent No. 6703491

TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster FILE REFERENCE: File Reference: 7126-094
CURRENT APPLICATION NUMBER: US/09/270,767

WINMER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                         610 GTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                      670 ICCTITITICAACAICGGAITCAITGGITITICAAITITICAACICCTICAIGAIGGIGAIC
                                                                                                                                                                                                                                                                                                                                                                                                TTCTTGGTGGCTTAGTTTTCAATGATTTTTAATGAGAACATTAAGAAAAGATTATGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   105 crecredececedareresacesecaacesarricariseerecesereaa
                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                       ;
0
                                                                                                                                                                                                                            Length 771;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 369.8; DB 3; Length
Pred. No. 3.2e-76;
0; Mismatches 247; Indels
                                                                                                                                                                                 ORGANISM: Drosophila melanogaster
US-09-270-767-679
                                                                                                                                                                                                                          Query Match
Best Local Similarity 67.7%;
Matches 518; Conservative
                                                                                                                                   SEQ ID NO 679
LENGTH: 771
                                                                                                                                                                                                                                                                                                                                                                                                730
                                                                                                                                                                                                                                                                                                                                                                                                                          645
                                                                                                                                                                                                                                                                                                                                                                                                                                                      790
                                                                                                                                                                    TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 윰
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
```

```
1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1270 ATACTIGGCCGAAAICIGICAGGICAGCCCAACTITICCTIGICGIGTCAAIGCTGIGCCT 1329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1030 ACGICICCAGIGAAIGGIIAITITIGGAGGAAGICIGIAITGCIAGACAAGGAGGAAGGAGAA 1089
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     789
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        646
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  525 AAGCAGGAGCATGCGATGTCTTCCGCCCCAACACACACTGCTCTTCTCGGCGTTG 466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         969
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             225 rriccrearicaacrricarreccarregararcacecriceaeaeccarreccrreegrace 166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       165 Argeregegereacenscarcrecrerritercarcrecerreacreregegraszaer 106
                                                                                                                                             Sequence 15961, Application US/09270767
PRETENT NO. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TILLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster.
FILE REPERRNCE: File Reference: 7326-094
CURRENT APPLICATION:NUMBER: US/09/270,767
CURRENT APPLICATION:NUMBER: US/09/270,767
CURRENT APPLICATION:NUMBER: US/09/270,767
CURRENT PAPLICATION:NUMBER: US/09/270,767
CURRENT APPLICATION:NUMBER: US/09/270,767
CURRENT APPLICATION:NUMBER: US/09/270,767
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               910 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       610 GTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAATATCTTGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <u> ercaacriceaageccaageagericaagaarcearriceacaagaacricearcea</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              670 TCCTTTTTTCAACATCGGATTCATTGGTTTTTCAATTTTCAACTCCTTCATGATGTGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTCCTGGTGGGTCTGGTGTCCATGATTCTGATGCGAACTCTGCGCAAGGATTATGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     730 TTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           465 GTGGGCGCTGGATACCAACTGATTTCGGTTGTATTCTGTGTGATCATGTTCGCCATAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GAAGATTTATATACTGAGAGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GETGAATTGTACACGGAACGCGGCTCCATGCTGTCCACGGCTATATTTGTGTATGCCGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                145 ACCTCACCAATCAATGGATACTTTGGAGGATCGCTCTATGCCCGCCTGGGTGGACGCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCCACTGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      285 redarceacadariecregiereceerriracagriccagiegererereceeacadeer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TICTICALCAATTICATAGCCATITATTACCATGCTICAAGAGCCATICCTITIGGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1210 AIGGIGGCCGTTTGTTGCATCTGTTTTTTTTTTTTTTTTCTTCCTCTAAATCTTGTTGGTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       105 GTCGTGGGCGGCAATCTGGACGAACCGGAACTTTCCATGCCGCGTCAACGCGGTGCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 771;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indela
45 CGACCCATTCCCGAAAAGAAGTGGTACATGGAGCCACTGATTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 17.8%; Score 369.8; DB 3; Best Local Similarity 67.7%; Pred. No. 3.2e-76; Matches 518; Conservative 0; Mismatches 247;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; ORGANISM: Drosophila melanogaster US-09-270-767-15961
                                                                                   RESULT 6
US-09-270-767-15961/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 15961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  645
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           790
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  970
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1150
```

σ

```
1514
                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                244 GGTCTGGATATTAAATTTAAAGATGTGATGCCAGCCACTTACTGTGAAATTGATTA 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       244 ATCAGTCATTACCATGAAACTCTGGGAGAGCACTTCAAGGGGGTTGAATTGGAATTTAGT 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            424 TACATAGATGATTTACCAATATGGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGAT 483
                                                                                                                                                            APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Duclert, A.
APPLICANT: Duclert, A.
APPLICANT: Duclert, A.
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
FILE REFERENCE: 59.US2.REG
CURRENT APPLICATION NUMBER: US/09/513,999C
CURRENT FILING DATE: 2000-02-24
PRIOR PILING DATE: 1999-02-26
NUMBER OF SEQ ID NOS: 36681
SOFTWARE: Patent.pm
SEQ ID NO 3502
LENGTH: 433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       64 caccacitaticaacataaacacamacricitriaiccarcaatacricificacccraccat 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              364 GATAAAGAAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      364 TACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          124 CACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 433;
CGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATT 1374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                              ccacccarrecceaaaagaagrecracarecaccecrearrarr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 364.8; DB 3
Pred. No. 3.8e-75;
1; Mismatches 3
                                                                                                              Sequence 3502, Application US/09513999C Patent No. 6783961 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 98.9%;
Matches 366; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
NAME/KEY: misc_feature
LOCATION: 86
OTHER INFORMATION: m=a or
US-09-513-999C-3502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       484 TACTATCTTT 493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        124 racrarcrir 433
                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: CDS
LOCATION: 100..432
                                                                                                  US-09-513-999C-3502
1330
                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
```

Sequence 28434, Application US/09270767 Patent No. 6703491 GENERAL INFORMATION:

RESULT 8 US-09-270-767-28434

```
1454 AGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCCATTGTGACTG 1513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1634 ACTATITITICAAAACAAAGAIGIAIGCCITATITCAAACAICAITITACITIGGAIAIA 1693
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1694 TGGCGGTATTTAGCACACCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAA 1753
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1454 AGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTTGTTATCCTGTGCATTGTGACTG 1513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121 rerecercaccarcererecaccractrecrectaarreceaggarraceareacan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301 rescaererreascescecerrissescarrarerscesceaecerescrarerssescada 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
APPLICANT: Homburger et al.

TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster FILE REFERENCE: File Reference: 7326-094

CURRENT APPLICATION NUMBER: US/09/270,767

CURRENT PILING DATE: 1999-03-17

NUMBER OF SEQ ID NOS: 62517

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 28434

LENGTH: 571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acide and proteins of Drosophila melanogaster FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 AGAICTACGTCTACGGCTTCATGTTGCTGGTTTTTCAGCATCCTGACTGTGTGTCCACCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1574 GGACAAGTITICTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 recentricaricarcarcarrangangiacircarcircacciccircicagegraca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ICTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181 gaacgagrircarggcriccaggcriccacgrirracgrigracgccrarriccriterarr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 recentregarecaretrearregaretrearetrearetreaegegegere
                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1754 GIGCCITIGICCGAAAAICIAIACIAAIGIGAAAAITGACIAGAGACCC 1803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  361 ATCTCTTTGTGCGCAAAATCTATTCCAATGTGAAAATAGACTAAGAGCCC 410
                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11.1%; Score 230.8; DB 3; Length 1151; 72.7%; Pred. No. 7.6e-44;
                                                                                                                                                                                                                                                                                                                                                                       Length 571;
                                                                                                                                                                                                                                                                                                                                                                    Score 230.8; DB 3; Length
Pred. No. 5.9e-44;
0; Mismatches 112; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. 7.6e-44;
0; Mismatches 112;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1394 TACCTTTTGGTTCAATCTTTATTGAAATGTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 12633, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
                                                                                                                                                                                                                                                         ; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-28434

    i TYPE: DNA
    i ORGANISM: Drosophila melanogaster
    US-09-270-767-12633

                                                                                                                                                                                                                                                                                                                                                                       11.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1394 TACCTITIGGITCAAIC
                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 72.7
Matches 298; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 72.7
Matches 298; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-270-767-12633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEO ID NO 12633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Š
```

```
1881 cacaciariarcarioscanioscerrearicciraccacioscriracidedecirial 1940
                                           1284 irinicecmecreceanminingicaccidecaaccaaccaaccicharaacerendeng 1343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2001 CAATICIGIACTIVIGGIIATACCAIGAIAAIGGIITITGAICTICITITITACAGGAA
                                                                                              1013 TATTITGTCTAIGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTAIGCTA
                                                                                                                                                                                                                                1404 CCTTTGGAGGTGAGAGTGGAAAACAAATGTTTATTAACATCATTTTTTGTCCTGGGA
                                                                                                                                                                                                                                                                                                                       1464 trgiatrigcrgactrcttrataatgaatcrggaccrcrggggagaagarctrcaggag
                                                                                                                                                                                                                                                                                                                                                                                                                   1524 CTATTCCTTTTGGGACACTGGTTGCCATATTGGCCTTTGGTTCTGCATATCTGTGCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1584 TGACGTTTATTGGTGCATACTTTGGTTTTAAGAAGAATGCCATTGAACAC---CCAGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GIGICAAIGCIGIGCCICGICCIAIACCGGAGAAAAAIGGITCAIGGAGCCIGCGGITA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1821 icarrricerrarraccreircreaaccaaciaracrrcrrrecrarriccaccrarere
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1941 rerranciargeagracacracirerrireaaaacrecagarcacggaacagca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTG
                                                                                                                                                                                                                                                                              TGGTGTGTGCCACTGCCTTCTTCATTTCATAGCCATTTTATTACCATGCTTCAAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                              TAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1641 GAACCAATCAGATTCCACGTCAGATTCCTGAACAGTCGTTCTACACGAAGCCCTTGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1373 TTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           THATCCTGTGCATTGTGACTGTCTGTGACTATTGTGTGCACATATTTTTTAAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAGATGTATGGCTTATTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2061 caaricecricirrecarecririseririeiraccaaahraracacieresicaaeerie
                                                                                                                                    reciccierecerecrecececececececederiaricies
                                                                                                                                                                                  1073 GACAAGGAGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INPORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Voc. Henry
APPLICANT: Corley, Neil C.
APPLICANT: Lal, Preeti
APPLICANT: Shah, Purvi
APPLICANT: Shah, Purvi
APPLICANT: Han, Purvi
APPLICANT: Haney
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 6, Application US/08959004
Patent No. 6197543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1793 ACTAGAGA 1800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2121 ACTGAAGA 2128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 11
US-08-959-004-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1761
                                                                                                                                                                                                                                                                              1133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1433
                                                                                                                                                                                                                                                                                                                                                                          1193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1733
                                                                                              8
                                                                                                                                    셤
                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                              è
                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 3623, Application US/09949016

Sequence 3623, Application US/09949016

Patent No. 6812339

GENERAL INFORMATION:

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

CURRENT APPLICATION NUMBER: 08/09/949,016

PRIOR FILING DATE: 2000-04-14

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-10-03

PRIOR FILING DATE: 2000-10-03

PRIOR FILING DATE: 2000-10-03

WINMER OF SEQ ID NOS: 207012

SOFTWARE: PRESEC for Windows Version 4.0
                                                                                                                                                                 1633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1055
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1163
                                                                                                                                                                                                                                                           ACTAITITITCAAAACAAAGAIGIAIGGCTIAITITCAAACAICAITITIACTITIGGAIAIA 1693
                                                                                                                                                                                                                                                                                                                                                    TGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAA 1753
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1056 regreatretereteratersaarigaragerajaritargriaegakaekerigeaea 1115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           180
                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                   TGGCACTCTTCAGCGCGCTTGGGCATTATCTGCGGCACCGTCGGCTATGTGGGCACGCA 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            895
ACTICTICITITAAAACCAAAAIGIICGGICIGIICCAAACGGCCITCIACTTIGGCIACA 300
                                                                                                                                                                                            GGACGAGTTTCATGGCTGCGGGCTCCACGTCGATTTACGTGTACGCCTATTCCTACTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        896 TATTTICCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTA
                                                                                                                   121 TGTGCGTCACCATCGTGTGCACCTACTTCCTGCTAAATGCCGAGGATTACCGATGGCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             656 AATAICTIGAICCGICCTITITICAACAICGGAITCAITGGITTICAATTTTCAACICCI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      996 acrararicrosacricrargecricaracccacarricagrocriraggarrargaarrecc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCATGATGGTGATCTTCCTTGGTGGGCTTTCCAATGATTTTTAATGAGAACATTAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              836 ATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCACTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                           GTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCC 1803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361 Arcretrirereceaaaarerarrecaarereaaaraaaraeaeree 410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1116 AAGATATTGCTAGATATAATCAGATGGACTCTACGGAAGATGCCCAG-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 227.6; DB 3; Length Pred. No. 5.5e-43; 0; Mismatches 534; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 51.9%;
Matches 596; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -09-949-016-3623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-949-016-3623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 3623
LENGTH: 2391
                                                                                                                                                                                                                                                           1634
                                                                                                                                                                 1574
                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                    1694
                                                                                                                                                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                                                                                                                           1754
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1224
                                                                                                          8
                                                                          ઠે
                                                                                                                                                            ઠે
                                                                                                                                                                                                        원
                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                 S
S
                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
```

Φ

```
TGGTGTGTGGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAG 1192
                                                                                                                                                                                                                                                                                                                                                                                                                  1689 daaccaarcaarrccacercacarrccreaacacrerrcracacaadecerrecere 1748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1749 grafitateargegagegarifricecrifrescreekreitrafracaactrirerrektre 1808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1433 TCACGICTITCIGGGCAIAIAAGAICIAITAIGICIAIGGCIICAIGAIGCIGCIGCIGCIGG 1492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1809 TGAATAGTATTTGGTCACCAGATGTATTACATGTTTGGCTTCCTATTTCTGGTGTTTA 1868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTATCCTGTGCATTGTGACTGTGTGACTATTGTGTGCACATATTTCTACTAAATG 1552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1869 icairmigemainaccneircneaaceachinacincrmeciairirceaccianeie 1928
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATG 1612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1613 TITACATGTATTCCTTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAA 1672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1989 icitaatciaigcagtacactacitcititcaaaactgcagatcacggaacagcaagga 2048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGGAG 1732
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2109 caainggcincingcangciningginginaccaaaananacagigaggaagging 2168
                                                                                                                                                                                                                                                                                                                        rgacgrirrarirggracaracrirrggrrrrraagaagaargccarrgaacac---ccagrrc
                                                                                                                          1512 TTGTATTTGCTGACTTCTTTATAATGAATCTGATCCTCTGGGGAGAAGGATCTTCAGCAG
                                                                                                                                                                                                               CTATITICETITITICGEACACTGGTTGCCCATATTGGCCCTTTGGTTCTGCATATCTGTGCCTC
                                                                                                                                                                                                                                                                          TAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGGCCCAACTTTCCTTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTG
                                                                                                                                                                                                                                                                                                                                                                      GIGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10.9%; Score 226; DB 3; Length 1878;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1699, Application US/10104047
Patent No. 6943241
GENERAL INFORMATION:
APPLICANT: HELIX RESEARCH INSTITUTE
TITLE OF INVENTION: No. 6943241e1 full length cDNA
FILE REFERENCE: H1-A0105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/10/104,047
CURRENT FILING DATE: 2002-03-25
PRIOR APPLICATION NUMBER:
PRIOR FILING DATE:
NUMBER OF SEQ ID NOS: 4096
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACTAGAGA 1800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2169 ACTGAAGA 2176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-104-047-1699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-104-047-1699
                                                                                                                                                                           1193
                                                                                                                                                                                                                         1572
                                                                                                                                                                                                                                                                       1253
                                                                                                                                                                                                                                                                                                                           1632
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1793
                                                                                                                                                                                                                                                                                                                                                                         1313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                             . જે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1044 ACTATATTCTGGAGTCTATGCCTCATACCCACATTCAGTGGTTTAGCATTATGAATTCCC 1103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1104 regreatretetetetretraretegaaregragetaretaratarateraegaeaeen 1163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGCTATCAGTCTTTCTAGGATCCGGGACACAGATTTTAATTATGACCTTTGTGACTCTAT 1331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TTGTTGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTAC---AGCCA 1012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1332 TTTTCGCTTGCCTGGGATTTTTGTCACCTGCCAACCGAGGAGCGCTGATGACGTGTGCTG 1391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1013 TATTTGTCTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTA 1072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1392 regrecrerecegrecrecreses acces es caractricis es de constructara en 1451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1073 GACAAGGAGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTA 1132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            836 ATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGA 895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TATITICCICTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTA 955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               656 AATAICTIGAICCGICCTITTTICAACAICGGAITCATTIGGITTTCAATTTTCAACTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              716 TCATGATGGTGATCTTCTTGGTGGGCTTAGTTTTCAATGATTTTAATGAGAACATTAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 227.6; DB 3; Length 2805;
Pred. No. 5.8e-43;
0; Mismatches 534; Indels 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1164 aagararrigcragarararcagargacrcracggaagargcccag----
                                                                                                                                                                                     PF-0414 US
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals,
STREET: 3174 Porter Drive
CITY: Palo Alto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0
TELECHONMULICATION INFORMATION:
TELEPHONE: 650-845-4166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 11.0%;
Best Local Similarity 51.9%;
Matches 596; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 2805 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LIBRARY: ADRETUTO6
CLONE: 2822412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: nucleic acid
STRANDEDNESS: sing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IMMEDIATE SOURCE:
                                                                                                                                                                           USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY:
                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-959-004-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           926
```

ઠે

셤 à à g 8

σ

```
Sequence 6208, Application US/09248796A
Patent No. 6747137
GENERAL INPORMATION:
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA
   CACITICAAGGGGITGAATITGGAATITAGTGGICTGGATATTAAATITTAAAGATGATGTGA 334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Drosophila melanogaster
                                                                                                                                       CAATTGGCTTCTTTGTTTTGGTTTGTTACCAAATATACAGTGTGGTGAAGGTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rigita de la contra dela contra de la contra de la contra de la contra de la contra dela contra de la contra dela contra de la contra de la contra de la contra de la contra dela contra de la contra dela contra dela contra dela contra dela contra del la contra del contra del la contra del la contra del la contra dela contra del la contra dela contra del la contra dela contra del la contra del la contra dela contra dela contra del la contra dela contra del la contra dela contra del la contra del la contra del la contra dela contra del la contra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTCCATTCTGTGTGGGGTCAAAAAAGTATCAGTCATTACCATGAAACTCTGGGAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             712 cecrecaaceaciceacrecacricacrecaraceaeareacricaacecec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ccaaarcegrcarcrcarcerrecreseaseaseasececcaasecarrers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCATAAAAATCATTACTGGTACCAGATGTACATAGATTTACCAATATGGGGTATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTGGTGAGGCTGATGAAAATGGAGAAGATTACTATCTTTTGGACCTATAAAAACTTGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              regerea eccesa ce de contra de contra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TATGGATGAATACTGTTGGGCCCTACCATAATCGTCAAGAAACATATAAGTACTTTTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              592 rericialitalacacecreciceraceaciantes residentes es recicaraceceracirentes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ccercaacaaccagracreeraccaaarcracarccarreeacreeccarrreeggaaaag
                                                                         CCATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGCCCCGGACCCGGGCGCACGACCACGTATCAAGATAAAGAGAAGTTGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      952 regecracaaregecageaaaregregarareaceergaeea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 161.2; DB 3;
Pred. No. 1.1e-27;
0; Mismatches 188;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 14715, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; ORGANISM: Drosophila melanogaster US-09-270-767-14715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 59.3
Matches 274; Conservative
                                                                                                                                                                                                                                                                                  1825
                                                                                                                                                                                                             ACTAGAGA
                                                                                                                                                                                                                                                                               1818 ACTGAAGA
                                                                                                                                                                                                                                                                                                                                                                                     RESULT 13
US-09-270-767-14715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-248-796A-6208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 14715
LENGTH: 995
                                                                                                                                       1758
                                                                                                                                                                                                             1793
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  892
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       515
                                                                         1733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            652
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  275
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 395
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 14
                                                                                                                                요
                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                               용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                         ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1732
                                           'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTTTCGCTTGCCTGGGATTTTTGTCACCTGCCAACCGAGGAGCGCTGATGACGTGTGCTG 1040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1041 TGGTCCTGTGGGTGCTGCTGGGCACCCTGCAGGCTATGTTGCTGCCAGATTCTATAAGT 1100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1398 GTATTATCATGGGAGGATTTTGCCCTTTGGCTGCATCTTTATATACAACTTTTCTTCATTC 1457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rgaaragrariricgreaccacacaterarracargriricgerrecrarirergrerra 1517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITACAIGIAITCCTITIACIACIAITTTTTCAAAACAAAGAIGIATGGCTIATTTCAAA 1672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1697
                                                                                                                                                                                                                                              775
                                                                                                                                                                                                                                                                                                                                                                                         835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        955
                                                                                                          715
                                                                                                                                                                            752
                                                                                                                                                                                                                                                                                                                   812
                                                                                                                                                                                                                                                                                                                                                                                                                                                           860
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGCTATCAGTCTTTCTAGGATCCGGGACACAGATTTTAATTTATGACCTTTTGTGACTCTAT 980
                                                                                                                                                                                                                                                                                                     TGGTCAFTGTTCTTCTTATCTGGAATGGTAGCTATGATTATGTTACGGACACTGCACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGTGCATCAACTGCAATCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CATCATTITACTITIGGATATATGGGGGTATTTAGCACAGCCTTGGGGATAATGTGTGGGGG
                                                                                                                                                                        Actaratricrogadricrargecricaraccacarricagnostriragearriangaarricec
                                                                                                                                                                                                                                              TCATGATGGTGATCTTCTTGGTGGCCTTAGTTTCAATGATTTTAATGAGAACATTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                         AAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAGAATTTGGCTGGAAACTTGTTCATGGTGATATATTCCGTCCTCCAAGAAAGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTGTTGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTAC---AGCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TATTTGTCTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ccrrrddaddradaddaaaacaaargrrrrarraacarcarcrrrrrrgrccrdda
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGGTGTGTGGCACTGCCTTCTTCATCATTTCATAGCCATTTATTACCATGCTTCAAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               rrerarrinecreactrinarandaarcreatercreresesasaasarcricaseas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTATTCCTTTTGGGACACTGGTTGCCATATTGGCCCTTTGGTTCTGCATATCTGTGCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCCAACTTTCCTTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  reacgritarricerecaractriterritarraagaagaarecearrgaacac---ceagric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GAACCAATCAGATTCCACGTCAGATTCCTGAACAGTCGTTCTACACGAAGCCCTTGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCACGICTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTTTTAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rcairriggrnairaccrgircrgaagcaacraiacrircrrrgcrairirccaccraig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cadaddarinarcariodcaarodcorrcarrocrracoagrodcrrracidederrrarr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rcitaaiciaigcagiacaciacircirircaaaacrgcagaicacggaacagcaagcg
                                                                                                          AATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GACAAGGAGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTA
                                           Gaps
                                           18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       aagatattigctagatataatcagatggactctacggaagatgcccag----
                                        IndelB
51.8%; Pred. No. 1.2e-42; ive 0; Mismatches 535;
                                Matches 595; Conservative
Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1338
                                                                                                          959
                                                                                                                                                                                                                                              716
                                                                                                                                                                                                                                                                                                                                                                                     176
                                                                                                                                                                                                                                                                                                                                                                                                                                                           813
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          921
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     981
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1673
                                                                                                                                                                                                                                                                                                                   753
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               926
                                                                                                          ઠે
                                                                                                                                                             셤
                                                                                                                                                                                                                                          ठे
                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                       유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઢ
```

ö

Gaps

ö

651 274 711 394

831

771

454

891

951

ALBICAN

G

```
8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1737
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGAGGAAGGAGATGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTG 1137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGTGGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATT 1197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AATGCTGTGCCTCGTCCTATACCGGAGAAAATGGTTCATGGAGCCTGCGGTTATTGTT 1377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATC 1497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1498 CIGIGCATIGIGACIGICTGIGIGACIAITGIGIGCACAIAITTTICIACIAAAIGCAGAA 1557
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1558 GATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTAC 1617
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1618 ATGTATTCCTTTTACTACTATTTTTCAAAACAAGATGTATGGCTTATTTCAAACATCA 1677
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAG 1797
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  193 Griarificarciaritriagcraciariagaccarrarrarc---ggraccagragaacr 249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AATCAAATTCCAAGACAATTCCTACTCAACCATGGTATTTAAGTACTATCCCGGTAATG 309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      430 ATGATTTTAACTAGTAGTTTAATTACTATTTTAATTGATTTATTATTATTATTATGTTCAGAA 489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GGATTTATTAGTAGTTTAATATTTGTCAGATTAATTTAATGGTCAAATTAAATTGATTAG 726
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGTGGTGACAATTGGAAATTGAATAGTTTTTGACACCAGTTTTAGTACCAGGGATTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Arrcarrcarrrrrrgacrggrgga---aaarrrggrggarrragrrcarragrr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     607 TTATACAGTGGTTATTCAGCTGTGATTTCATTATTAGTTTTCCTTTGTTGTGGATCAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   retergetiticetigitaaariiietititaariireagiacaaretietigeteari
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 490 aattaaaariggcaariggaaarcarrarrrgrriggaggaggrrgrigcaarrrarrr
                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                   Length 726;
                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches 347; Indels
FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                   Score 132.8; DB
Pred. No. 3.8e-21
                  FILE REFERENCE: 107196.132
CURRENT APPLICATION NUMBER: US/09/248,796A
CURRENT FILING DATE: 1999-02-12
FRIOR APPLICATION NUMBER: US 60/074,725
FRIOR APPLICATION NUMBER: US 60/096,409
FRIOR FILING DATE: 1998-02-13
FRIOR PILING DATE: 1998-08-13
FRIOR FILING DATE: 1998-08-13
NUMBER OF SEQ ID NOS: 28208
                                                                                                                                                                                                                                                                                                                                                                      6.4%;
                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 51.0°
Matches 367; Conservative
                                                                                                                                                                                                                                                                      TYPE: DNA ORGANISM: Candida albicans
                                                                                                                                                                                                                                                                                                                  US-09-248-796A-6208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1078
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1738
```

US-09-949-016-1721/c ; Sequence 1721, Application US/09949016 ; Patent No. 6812339 ; GENERAL INFORMATION;

```
OLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2053
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1994 TGCCACCTGTCCGGCGATTCTGTCCAGATCTCTTTGTCCCTGAGGTGTCAGTTTGCGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                499 TTACGAATGAGGCAATTTATTAACCCAGCATGGTTTGTTCTAATGCTTCTTGTTGGCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              439 TGCCACCTGTCCGGCGATTCTGTCCAGATCTCTTTGTCCCTGAGGTGTCAGTTTGCGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5.9%; Score 122; DB 3;
100.0%; Pred. No. 1.1e-18;
ive 0; Mismatches 0;
                                        FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR PELLING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/231,768
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR PELLING DATE: 2000-10-03
PRIOR PELLING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1934 TTACGAATGAGGCAATTTATTAACCCAGCATGGT
                                                                                                                                                                                                                                                                                       SOFTWARE: FASTSEQ for Windows Version 4.0 SEQ ID NO 1721
LENGTH: 499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Search completed: March 10, 2006, 21:55:57 Job time : 360.113 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ouery Match 5.9
Best Local Similarity 100.
Matches 122; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GC 2055
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GC 378
                                                                                                                                                                                                                                                                                                                                                                                        ; ORGANISM: Human
US-09-949-016-1721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2054
                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
```

```
Sequence 29, Appl. Sequence 29, Appl. Sequence 122, Appl. Sequence 122, Appl. Sequence 2297, Appl. Sequence 335, Appl. Sequenc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 140808,
Sequence 4365, Ap
Sequence 39405, A
Sequence 14430, A
Sequence 140919,
                                                                                                                                                                                                                                     March 10, 2006, 21:56:09; Search time 1700.01 Seconds (without alignments) 10078.870 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 equence 13, Appl
equence 13, Appl
Sequence 22277, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1, Appli
Sequence 21837, 7
Sequence 10005, 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 ggatccactagtaacggccg.....cgctcgagcatgcatctaga 2072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Published Applications NA Main: *

1: /cgn2 6/ptodata//pubpna/USO7 PUBCOMB.seq: *

2: /cgn2-6/ptodata//pubpna/USO8-PUBCOMB.seq: *

3: /cgn2-6/ptodata//pubpna/USO8-PUBCOMB.seq: *

4: /cgn2-6/ptodata//pubpna/USO8-PUBCOMB.seq: *

5: /cgn2-6/ptodata//pubpna/USIO8-PUBCOMB.seq: *

6: /cgn2-6/ptodata//pubpna/USIO8-PUBCOMB.seq: *

7: /cgn2-6/ptodata//pubpna/USIO8-PUBCOMB.seq: *

8: /cgn2-6/ptodata//pubpna/USIOB_PUBCOMB.seq: *

9: /cgn2-6/ptodata//pubpna/USIOB_PUBCOMB.seq: *

10: /cgn2-6/ptodata//pubpna/USIOB_PUBCOMB.seq: *

10: /cgn2-6/ptodata//pubpna/USIOB_PUBCOMB.seq: *

10: /cgn2-6/ptodata//pubpna/USIOB_PUBCOMB.seq: *
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-425-115-140808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-437-963-14430
US-10-425-115-140919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-11-097-143-22277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9793542 seqs, 4134689005 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                            OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Minimum DB seq length: 0
Maximum DB seq length: 2000000000
                                                                                                                                                                                                                                                                                                                                                                                                              US-10-755-466-1
2072
                                                                                                                                                                                                                                                                                                                                                                                                              Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   646
583.6
581
570.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1830.8
1814
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1789.4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1789.4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1051
749.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1749.4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1789.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Database:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Searched:
                                                                                                                                                                                                                                                  Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Result
No.
```

ITING L

9

Gaps

ö

DB 8; Length 2072; 0; Indels

Query Match
100.0%; Score 2072;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2072; Conservative 0; Mismatches

ઠે 셤 ò g ઢ 셤 ò 셤

TYPE: DNA ORGANISM: Homo sapiens

SEQ ID NO 1 LENGTH: 2072

; FEATURE: ; NAME/KEY: CDS ; LOCATION: (49)..(1794) US-10-755-466-1

AGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTT 300

		2		2011		02-11-03/-143-222/0	,
	22	562.6	27.2	2152	7	US-10-767-701-12720	Seguence 12720, A
	26	547.4	26.4	2039	7	US-10-425-114-26742	Sequence 26742, A
	27	547.4	26.4	2068	ω	US-10-425-115-101961	
	28		26.0	560	7	US-10-242-535A-2630	Sequence 2630, Ap
	29	537.8	26.0	560	7	US-10-085-783A-2630	
	30	474.4	22.9	1535	œ	US-10-425-115-21677	21677,
υ	31	473.2	22.8	545	σ	US-10-287-436A-887	
U	32	473.2	22.8	545	σ	US-10-287-436A-1419	1419,
	33	464.8	22.4	2316	7	US-10-437-963-658	658, 7
υ	34	416.4	20.1	419	m	US-09-918-995-3956	3956,
	35	409.6	19.8	497	٣	US-09-969-034-1724	1724,
	36	409.4	19.8	418	σ	US-10-779-543-11907	11907,
O	37	406.2	19.6	459	9	US-10-062-674-445	445,
	38	365.6	17.6	455	9	US-10-002-631C-133	133,
	39	365.6	17.6	455	9	US-10-002-631C-134	134,
	40	300.8	14.5	731	7	US-10-333-184-388	388,
	41	300.8	14.5	2032	æ	US-10-425-115-21679	2167
	42	296.4	14.3	2748	7	US-10-424-599-103451	
	43		14.2	1033	7	US-10-425-114-16392	
	44		13.2	529	Ŋ	US-10-198-846-11456	
	45	262.6	12.7	909	7	US-10-021-323-3365	Sequence 3365, Ap
				•		AT.TGNMENTS	
RESULT	LT 1						
US-1	10-75	US-10-755-466-1					
; Se	aguen	Ice 1, A	Sequence 1, Application US/10755466	ion US/	107	55466	
٠.	ıblic	ation N	lo. US20	04026583	54A		
 G	NERA	GENERAL INFORMATION	MATION:				
	APPL1	CANT: H	APPLICANT: HIDAKA,	Jun et al.	ᆸ		
	LITLE	OF IN	TITLE OF INVENTION:	RECOMB	IN	RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR	RECEPTOR PROTEINS EXHIBI
		OF INV	TITLE OF INVENTION: BINDI		ğ	BINDING ACTIVITIES, AND THEIR USES	κn
	TIRRE	NT APPL	ICATION	NUMBER	Þ	CHRRENT APPLICATION NUMBER: US/10/755.466	
	URRE	NT FILE	CURRENT FILING DATE: 2004-01-13	2004	5	13	
•	PRIOR	APPLIC	ATION N	UMBER: 1	us/(	PRIOR APPLICATION NUMBER: US/09/786,681	
••	RIOR	FILING	PRIOR FILING DATE: 2001-04-30	2001-04	-30		
4	TOMBE		NUMBER OF SEQ ID NOS:	S: 7			
~ (	SOFTW SOFTW	SOFTWARE: Pa	PatentIn version 3.0	version	۳. ش	0	٠
·	_						

8 8 6 8 6 8 6 8 6 8

원 상 원

ò

g

6 8 6 8 6 8 6

1381 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1381 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1381 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTTATTGAAATGTATTTCATCTTCACGTCT 1441 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGTTATCCTG  [	1441 TICIGGGCATATAAAATCTATTATGTCTATGGCCTCATGATGCTGCTGCTTGTTATCCTG 150 1501 TGCATTGTGACTGTCTGTGACTATTTGTGCACATATTTTCTACTAAATGCAGAAGAT 156 1501 TGCATTGTGACTGTGTGACTATTTGTGCACATATTTTTTTAATGCAGAAGAT 156	1561 TACCGGTGGCAAGTTTTCTCTCTGCTGCATCACTGCAATCTATGTTAAGT 162  1561 TACCGGTGGCACAGACAGTTTTTTTTTTTTTTTTGCTGCTGCCATCTTTTAATTTTTTTT	DD 1621 TATTCCTTTTTCTACTACTATTTTTCAAACAAAGATGTATGT	OY 1741 TACATGGGAACAAGTGCCTTTGTCCGAAAATCTATACTAATGTGAAAATTGACTAGAGA 1800  Db 1741 TACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGA 1800  ON 1801 CCCAAGAAAAACTGCCTTTGTCCGAAAAATCTATTCATAGGGGGTGGAAATTGACTAGAGA 1800	1861 BABABABACABABABABABABABABATTTTTTTTTTTTT	1861 AAAAACAAACGAAGGAAGAGATTIGGGCTTTAACTTTTTTTTTT	1921 TTTTTTTTTTTTTACGAATGAGCAATTTATTAACCCAGCATTGTTTTTTTT	1981 TCTTGTTGGCGCTGCCCCTGTCCGGCGATTC	Oy 2041 TCAGTTTGGGGCGCTCGAACCATGCATGGA 2072  Db 2041 TCAGTTTGGGCGCTCGAGCATGCATCTAGA 2072	RESULT 2 US-09-814-353-21837 ; Sequence 21837, Application US/09814353 · Dailication No US/09814353	GENERAL INFORMATION: APPLICANT: Lee, John APPLICANT: Thompson, Pamela ApplicANT: Thompson, Tallia	; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND ; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND ; TITLE OF INVENTION: THERAPY OF OVARIAN CANCER  FITE DEPENDENCE, MAI-OACH	CURRENT APPLICATION NUMBER: US/09/814,353 ; CURRENT FILING DATE: 2001-03-21 ; PRIOR APPLICATION NUMBER: US 60/191,031 ; PRIOR FILING DATE: 2000-03-21	; PRIOR APPLICATION NUMBER: US 60/207,124 ; PRIOR FILING DATE: 2000-05-25 ; PRIOR APPLICATION NUMBER: US 60/211,940 ; PRIOR PILING DATE: 2000-06-15	; PRIOR APPLICATION NUMBER: US 60/216,820 ; PRIOR FILING DATE: 2000-07-07 ; PRIOR APPLICATION NUMBER: US 60/220,661
241 AGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTT 300 301 AGTGGTCTGGATATTAAATTTAAAGATGATGTGTGATGCCAGCCA	361 TTAGATAAGAAAAGAGATGCATTTTTTTTTTTTTTTTTT	481 GATTACTATCTTTGGACCTATAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 540		661 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 720 	721 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAGA	781 TATGCTCGGTACAGTAAAGAGGAAGAAAGGGATGATATGGATAGGGCCTAGGAGGATGAA 840 	841 TATGGARACAGGTGCATGGAGATGTATTTAGACCATGAGTCACCCACTGATATTT 900	901 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATGGTTATTATTGTT 960	961 GCAATGATAGAAGATTTATATACTGAGAGGATCAATGCTCAGTACAGCCATATTTGTC 1020 	1021 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAGAGTCTGTATGCTAGACAAGGA 1080	1081 GGAAGGAGATGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT 1140 	1141 GGCACTGCCTTCTTCATCATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCT 1200 	1201 TITGGAACAAFGGTGGCCGTITGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTT 1260 	1261 GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTCTAAT 1320 	1321 GCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 1380 

```
TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG
   TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT
                                                                                                                                                   GCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGGTTATTGTTGC
                                                                                                                                                                                                                                                                                       GCAATGATAGAAGATTTATATACTGAGAGGGATCAATGCTCAGTACAGCCATATTTGTC
                                                                                           1010 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA
                                                                                                                                                                                      TGCATTGTGACTGTCTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT
                                                                                                                                                                                                                                                                                                                                                                 1681 TACTTTGGATATATGGCGGTATTTAGCACCCCTTGGGGGATAATGTGTGGAGCGATTGGT
1670 TACTTTGGATATATGGCGGTATTTAGCACGCCTTGGGGGATAATGTGTGGAGCGATTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCCAAGAAAACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1850 AAAACAAACAAACGCAAGAAGAGATTTGGGCTTTAACACACTGGGTACTTGGGGTCT
                                                                                   TATGCTGCTACGTCTCCCAGTGATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA
                                                                                                                                                                                                                                                       GCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CICITI
                                                  196
                                                                                                                                                     1141
                                                                                                                                                                     1130
                                                                                   1021
                                                                                                                                                                                      1201
                                                                                                                                                                                                      1190
                                                                                                                                                                                                                      1261
                                                                                                                                                                                                                                      1250
                                                                                                                                                                                                                                                       1321
                                                                                                                                                                                                                                                                        1310
                                                                                                                                                                                                                                                                                         1381
                                                                                                                                                                                                                                                                                                       1370
                                                                                                                                                                                                                                                                                                                        1441
                                                                                                                                                                                                                                                                                                                                        1430
                                                                                                                                                                                                                                                                                                                                                         1501
                                                                                                                                                                                                                                                                                                                                                                         1490
                                                                                                                                                                                                                                                                                                                                                                                         1561
                                                                                                                                                                                                                                                                                                                                                                                                           1550
                                                                                                                                                                                                                                                                                                                                                                                                                           1621
                                                                                                                                                                                                                                                                                                                                                                                                                                           1610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1790
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1921
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1910
                   106
                                                                                                                                                                                                                                                       à
                              셤
                                                              셤
                                                                                              셤
                                                                                                                   ò
                                                                                                                                 셤
                                                                                                                                                                  원
                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                    셤
   8.8
                                               ò
                                                                                  ⋧
                                                                                                                                              · &
                                                                                                                                                                                    Š
                                                                                                                                                                                                  셤
                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                       δ
                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                        8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                     සි දි
                                                                                                                                                                                                                                                                                                                                                                                                                                      영 참
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                              ö
                                                                                                                                                              120
                                                                                                                                                                                                                               240
                                                                                                                                                                             109
                                                                                                                                                                                              GAACACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTAC 180
                                                                                                                                                                                                              169
                                                                                                                                                                                                                                                229
                                                                                                                                                                                                                                                                 300
                                                                                                                                                                                                                                                                                289
                                                                                                                                                                                                                                                                                                360
                                                                                                                                                                                                                                                                                                                 349
                                                                                                                                                                                                                                                                                                                                                                 480
                                                                                                                                                                                                                                                                                                                                                                                                  540
                                                                                                                                                                                                                                                                                                                                                                                                                                   600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     999
                                                                                                                                                                                                                                                                                                                                TTAGATAAAGAAAAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAG 420
                                                                                                                                                                                                                                                                                                                                                409
                                                                                                                                                                                                                                                                                                                                                                                 469
                                                                                                                                                                                                                                                                                                                                                                                                                   529
                                                                                                                                                                                                                                                                                                                                                                                                                                                    589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        900
                                                                                                                                                                                                                                                                                                CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 GCGGCCGCCGCGCTGCTGCTGCTGCTGCTGCTCCCCGGACCCGGGCGGACGAGCAC
                                                                                                                                                                       GGGCCGCCGCGCTGTGCTGCTGCTGCTGCTGCTGCCCCGGACCGGACGAGCAC
                                                                                                                                                                                                       GAACACACGTATCAAGATAAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTAC
                                                                                                                                                                                                                                                               TTAGATAAAAGAAAAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAG
                                                                                                                                                                                                                                                                                                                                                                 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                  GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTTGATCCGTCCTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GATGTTAATCTAACTAGGGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        841 TATGGATGGAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT
                                                                                                                                                                                                                                                                                                                                                                           ATGTACATAGATGATTTACCAATATGGGTATTGTTGGTGAGGCTGATGAAAATGGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA
                                                                                                                                              Gaps
                                                                                                                                             .
0
                                                                                                                             Length 3508;
                                                                                                                                             Indels
                                                                                                                             DB 3;
                                                                                                                                             16;
                                                                                                                           Query Match 88.8%; Score 1840.4; Best Local Similarity 99.1%; Pred. No. 0; Matches 1850; Conservative 0; Mismatches
PRIOR FILING DATE: 2000-07-25
PRIOR APPLICATION NUMBER: US 60/257,672
PRIOR PILING DATE: 2000-12-21
NUMBER OF SEQ ID NOS: 22037
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 21837
TYPE: DNA
TYPE: DNA
ORGANISM: Homo sapiens
                                                                         | FEATURE: | NAME/KEY: misc_feature | LOCATION: 1, 2, 3506, 3507, 3508 | OTHER INFORMATION: n = A,T,C or US-09-814-353-21837
                                                                                                                                                                                                               110
                                                                                                                                                                                                                                                170
                                                                                                                                                                                                                                                                                230
                                                                                                                                                                                                                                                                                                                290
                                                                                                                                                                                                                                                                                                                                361
                                                                                                                                                                                                                                                                                                                                                 350
                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                 410
                                                                                                                                                                                                                                                                                                                                                                                                                   470
                                                                                                                                                                                                                                                                                                                                                                                                                                                    530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       650
                                                                                                                                                                                              121
                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                 241
                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                                                                    541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       781
                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                              ઠ
                                                                                                                                                                             셤
                                                                                                                                                                                                          g
                                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                                 8 8
                                                                                                                                                                                                                                                                                                                             ठे
                                                                                                                                                                                                                                                                                                                                              엄
                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                              8
                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  õ
```

1320

1069

949

1129

1380

1369

1440

1489

1669

1800

us-10-755-466-1.rnpbm

```
950 GCAATGATAGAAGATTTATATACTGAGAGGGATCAATGCTCAGTACAGCCATATTTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1370 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1550 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG
590 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT
                                                                                                                  770 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGGATAGAGACCTAGGAGATGAA
                                                                                                                                                                                                                                       841 TATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTT
                                                                                                                                                                                                                                                          901 TCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1070 GGAAGGAGAIGGAIAAAGCAGAIGTITATIGGGGCAITCCTIAICCCAGCTAIGGIGI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1321 GCTGTGCCTCGTCCTATACCGGAGAAAAAAAAGGTTCATGGAGCCTGCGGTTATTGTTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1310 GCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGGCCTGCGGTTATTGTTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1430 TTCTGGGCATATAAAATCTTATTATGTCTATGGCTTCATGATGCTGCTGGTGCTGGTTATTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGCATTGTGACTGTGTGTGTGTGTGCACATATTTTCTACTAAATGCAGAAGAT
                                                                                                  ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTAATGAGAACATTAAGAAAAGAT
                                                                                                                                                                    TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGTTGATATGGATAGAGACCTAGGAGATGAA
                                                                                                                                                                                                                                                                                                                                        890 recreredarrestreresarereaararreserererererearestrarrarrerr
                                                                                                                                                                                                                                                                                                                                                                                                                                              TATGCTGCTACGTCTCCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1081 GGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1141 GGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTGGGTGGAATTTTACCTTTTGGTTCAATCTTAATTGAAATGTATTTCATCTTCACGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1561 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCAACTGCAATCTATGTTTACATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1610 TATTCCTTTTACTACTATTTTTCAAACAAAGATGTATGGCTTATTTCAAACATCATTT
                                                                                                                                                                                                                                                                                                                                                                             GCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1490 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TATTCCTTTTACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TACTTTGGATATATGGCGCTATTTAGCACACCTTGGGGATAATGTGTGGAGCGATTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1670 TACTITIGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1250 (
                                                                                                    721
                                                                                                                                                                                                                                                                                                                                                                                                                                                1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1621
                                                                                                                                                                    781
                                                                                                                                                                                                                                                                                                                                                                             961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1681
                                  199
                                                            셤
                                                                                                ઠ
                                                                                                                                  셤
                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                  ð
                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121 GAACACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTAC 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421 AIGTACATAGATGATTTTACCAATATGGGGTATTTGTTGGTGAGGCTGATGAAAATGGAGAA 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CATAATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGGTCAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCGGCCGCCCGCTGCTGCTGCTGCTGCTGCTGCTCCCCGGACCCCGGGCGGACGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CATAATCGTCAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGGTCAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               230 AGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTAGATAAAGAAAAGAGATGCATTTGTATATGCCATAAAAATCATTACTGGTACCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTAGATAAAGAAAAGAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      110 GAACACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGTGGTCTGGATATTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        481.GATTACTATCTTTGGACCTATAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTTAATGGAAATCGAATTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GATGTTAATCTAACTAGTGAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                             APPLICANT: Lillie, James
APPLICANT: Lillie, James
APPLICANT: Xu, Yongyao
APPLICANT: Steinmann, Kathleen
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION,
TITLE OF INVENTION: THERAPY OF BREAST CANCER
TITLE OF INVENTION: THERAPY OF BREAST CANCER
TITLE OF INVENTION: THERAPY OF BREAST CANCER
CURRENT APPLICATION NUMBER: US/10/198,846
CURRENT FILING DATE: 2002-07-18
PRIOR FILING DATE: 2001-07-18
NUMBER OF SEQ ID NOS: 14084
SOFTWARE: FREESEQ for Windows Version 4.0
SEQ ID NO 10005
LENGTH: 4004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 5; Length 4024;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 1840.4;
Pred. No. 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                               ; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1, 2, 4021, 4022, 4023, 4024
; OTHER INFORMATION: n = A,T,C or G
US-10-198-846-10005
                                                                Sequence 10005, Application US/10198846
Publication No. US20030099974A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    88.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 32.1 Matches 1850; Conservative
                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
ORGANISM: Homo sapiens
                                                US-10-198-846-10005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           원
```

1140

1260

1320

1440 1429

1740

1009 1080 1069

840

369 301 301 301 301 489 489 609		1269 ATTACTTGGCCGAAATCTGCGGGCCAACTTTCCTTGTCGTGTGTGT
8 8 8 8 8 8 8 8	66666666666666666666666666666666666666	6
•	241	<u>, sir - m - m - m - m - m - m - m - m - m - </u>
QY         1741 TACATGGGAACAAGTGCCTTTGTCCGAAAATCTATACTAATGTGAAAATTGACTAGAGA 1800           Db         1730 TACATGGGAACAAGTGCCTTTGTCCGAAAATCTATACTAAGTGAAATTGACTAGAGA 1789           QY         1801 CCCAAGAAAACTGGACTTTGCATATTTTTTTTTTTTTTT	Publication to 10   10   10   10   10   10   10   10	Qy         189 TCAAGAAACATATAAGTACTTTTCACTTCTGTGTGGGGTCAAAAAAAGTATCAG 248           Db         121 TCAAGAAACATATAAGTACTTTTCACTTCTGTGTGGGGTCAAAAAAAGTATCAG 180           Qy         249 TCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTCAATTGGAATTTAGTGGTCT 308           Db         181 TCATTACCATGAAACTCTGGGAAAGCACTTCAAGGGGTTGAATTTAGTGGTCT 240           CQy         309 GGATATTAAAATTTAAAGATGATGGAAGCACTTCAAGGGGTTACTGAAATTTAGATAA 368           Db         241 GGATATTAAATTTAAAGATGATGGATGCCAGCCACTTACTGTGAATTAGATTAA 300           Db         241 GGATATTAAATTAAAGATGATGGATGCCAGCCACTTACTGTGAAATTAGATAA 300

61 GTATCAAGATAAAGAGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATAATCG 120 189 TCAAGAAACATATAAGTACTTTCACTTCTGTGGGGGTCAAAAAAAA	609 AGTAMANGGANAAGCAGATGAGATTTGAGATTTGAGATTTGAAATTTCTAATTCTGACATTTGACAATTTCTGAGTTTGACAATTTCTGAGATTTGAGATTTGAGATTTGAGATTTGAGATTTGAGATTTGAGATTTGAGATTTGAGATTTGAGATTTGAGATTTGAGATTTGAGATTTGAGATTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTTTGAGATTAAGAGAAAGATTTTGAGTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG
8 4 8 4 8 6 8 6 8 6 8 6 8 6 8 8 8 8 8 8	6 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4
	· · · · · · · · · · · · · · · · · · ·

61 GCGGCCGCCGCGCTGTGGCTGCTGCTGCTGCCCCGGACCGGGCGGACGACCAC 120	AGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTT 	301 AGTGGTCTGGATATTAAATTTAAAGATGATGATGCCAGCCA	314 TTAGATAAAGAAAGAGGGTGCATTTGTATTGCCATAAAAATTCATTACTGGTACCAG 373 421 ATGATAAAGATGATTACCAATATGGGTATTGTTGGTGAGGGTGAAAATGGGAA 480 421 ATGATAGATGATTTACCAATATGGGGTATTGTTGTGGGGGGTGATGAAAATGGAAA 480 374 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 433	481 GATTACTATCTTTGGACCTATAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT 540 	541 GAIGTTAATCTAACTAGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATG 600 	601 TCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATAT 660 	661 CTTGATCCGTCCTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 720 	
6 6 6 6 6	हे हैं	888	8 & 8	& ₽ 	දි දි	දු දු	යි යි	8 4 8 4 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6
								BITING L
1269 AATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCC 1328	1449 ATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGT 150	Oy 1509 GACTGTCTGTGTAACTATTGTGTGCACATATTTCTACTAAATGCAGAAGATTACCGGTG 1568  ,		Qy         1689 ATAIATGGCGGTAITTAGGACAGCGTTGGGGATAATGTGTGGGAGCGATTGGTTACATGGG 1748           Db         1621 ATAIATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGG 1680	OY 1749 AACAAGTGCCTTTGTCCGAAAATCTATACTAATGTGAAAATTGACTAGAGACCCAAGAA 1808 	OY 1809 PACCTCGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGAAAACAA 1868 	Qy         1869         ACAAACGCAAGAAGACATITGGGCTTTAACTITTTTTTTTTT	RESULT 6  US-10-755-466-3  Sequence 3, Application US/10755466  Publication No. US20040265854A1  Sequence 3, Application US/10755466  Publication No. US20040265854A1  GENERAL INFORMATION:  APPLICANT: HIDAKA, Jun et al.  TITLE OF INVENTION:  BIDDING ACTIVITIES, AND THEIR USES  CURRENT PILING DATE: 2004-01-13  PRIOR FILING DATE: 2004-01-13  PRIOR FILING DATE: 2001-04-30  NUMBER OF SEQ ID NOS: 7  SOFTWARE: Patentin version 3.0  SOFTWARE: Patentin version 3.0  SOFTWARE: DAA  ORGANISM: Homo sapiens  FEATURE:  NAME/KEY: CDS  LOCATION: (11)(1747)  Guery Match  Best Local Similarity 100.0%; Pred. No. 0;  Matches 1814; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

임

8 셤 ઠે g ò g 8 6

ò g 셤

ठे

В ò 임 ò 셤 à g ò

ð

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                 201
                                                                                                                                                                                                                                                                                                                                                                                                                                          132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   193 ACTCTGGGAGAAGCACTTCAAGGGTTGAATTGGAATTTAGTGGTCTGGATATTTAAATTT 252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATGTTAATCTAACTAGTGAA 492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    493 GGAAAGGTGAAACTGGTTCCAAATACTAAATCCAGATGTCATATTCAGTAAAATGGAAA 552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    732
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          792
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        921
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       912
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAGATAAAGAAAAGAGAGAT 381
                                                                                                                                                                                                                                                                                                                                                   72
                                                                                                                                                                                                                                                                                                                                         253 AAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAGATAAAGAAAAGAGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           382 GCATTTGTATATGCCATAAAAATCATTACTGGTACCAGATGTACATAGATGATTTACCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCATTTGTATATGCCATAAAAATCATTACTGGTACCAGATGTACATAGATGTTTACCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAAAAACTIGAAATAGGTTTTAATGGAAATCGAATTGTTGATGTTAATCTAATGTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGAAAGGTGAAACTGGTTCCAATACTAAATCCAGATGTCATATTCAGTAAATGGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAGTCAGATGTGAAATTTGAGATCGATTTGACAAATATCTTGATCCGTCCTTTTTTCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGGTACAGTAAAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GGAGATGTATTTAGACCATCAGTCACCACTGATATTTTCCTCTCTGATTGGTTCTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGAGATGTATTTAGACCATCAGCCACTGATATTTTCCTCTCTGATTGGTTCTGGA
                                                                                                                                                                                                                                                                                                                crecrecrecrecres de la conseces de la consecesión de la consecesión de la conseces de la conseces
                                                                                                                                                                                                                      Length 3076;
                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                  34; Indels
                                                                                                                                                                                                                        DB 3;
                                                                                                                                                                                                                      Score 1789.4;
Pred. No. 0;
                                                                                                                                                                                                                                                                  3; Mismatches
                                                                                                                                                            占
                                                                                                                                                            equals a,t,g,
                                                                                                                                                                                                                      Query Match 86.4%;
Best Local Similarity 98.0%;
Matches 1808; Conservative
; SEQ ID NO 29
; LENGTH: 3076
; TYPE: DNA
; ORGANISM: HOMO SADIENS
; FRATURE:
; NAME/KEY: SITE
; LOCATION: (3064)
; OTHER INFORMATION: n eq. US-09-915-582-29
                                                                                                                                                                                                                                                                                                                                                                                                   142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  442
                                                                                                                                                                                                                                                                                                                82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     622
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        682
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   802
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    793
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           853
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                922
                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 8
                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ठ हे ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        . 요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                ઠે
                                                                                         1260
                                                                                                                                                                                                                                                                    1380
                                                                                                                                                                                                                                                                                                                                                                                                                                          1153
                                                                                                                                   1213
                                                                                                                                                                                                                                                                                                                                                                              CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCT 1393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTTGGTACATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 1320
                                                                                                                                                                                                        1214 GTTGGTACATACTTGGCCGAAATCTGTCAGGTCAGGTCCACCTTTCCTTGTCGTGTCAAT 1273
                                                                                                                                                                                                                                                                                                                                                            1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1454 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 1513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCAACTGCAATCTATGTTTACATG 1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1574 TATICCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATGATT 1633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGGAGCGATTGGT 1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1634 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGGGCGATTGGT 1693
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1694 TACAMGGGAACAAGTGCCTTTGTCCGAAAATCTATACTAATGTGAAAATTGACTAGAGA 1753
                                                                                                                                                                                                                                                                                                              1274 GCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTGC 1333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1514 TACCGGIGGCAAIGGACAAGITITCTCTCTGCGGTGCATCAACTGCAAICTATGTITACATG 1573
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGA 1800
  CTGGGTGGAA TTTTACCTTTTGGTTCAA TCTTTATTGAAATGTATTTCATCTTCACGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PAPPLICATION THUMAN Secreted Proteins TITLE OF INVENTION: 17 Human Secreted Proteins FILE REFERENCE: PS723P1
CURRENT APPLICATION NUMBER: US/09/915,582
CURRENT FILING DATE: 2001-07-27
FRIOR APPLICATION NUMBER: PCT/US01/01431
FRIOR FILING DATE: 2000-01-31
FRIOR FILING DATE: 2000-01-31
FRIOR FILING DATE: 2000-01-31
FRIOR APPLICATION NUMBER: 60/180,628
FRIOR APPLICATION NUMBER: 60/180,628
FRIOR APPLICATION NUMBER: 60/231,968
FRIOR APPLICATION NUMBER: 60/231,968
FRIOR FILING DATE: 2000-02-04
FRIOR FILING DATE: 2000-09-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   S-09-915-582-29
Sequence 29, Application US/09915582
Patent No. US20020120103A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1814 AAAAACAAACAAAC 1827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAAAACAAACAAAC 1874
                                              1094
                                                                                                                                                                                                                                                                                                                                                                                                   1334 (
                                                                                       1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1861
    1141
                                                                                                                                                                               1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1561
                                                                                                                                                                                                                                                                    1321
                                                                                                                                                                                                                                                                                                                                                          1381
```

셤

g 8

FILE REFERENCE: PS723P1  CURRENT APPLICATION NUMBER: US/10/277,802  CURRENT FILING DATE: 2002-10-23  PRIOR APPLICATION NUMBER: 09/915,582  PRIOR PFLING DATE: 2001-07-27  PRIOR APPLICATION NUMBER: PCT/US01/01431  PRIOR APPLICATION NUMBER: PC7/US01/01431  PRIOR APPLICATION NUMBER: 60/179,065  PRIOR APPLICATION NUMBER: 60/180,628  PRIOR APPLICATION NUMBER: 60/180,628  PRIOR PILING DATE: 2000-02-01-01  PRIOR PILING DATE: 2000-02-01  PRIOR PILING DATE: 2000-02-01  PRIOR PILING DATE: 2000-09-12  NUMBER OF SEO ID NOS: 97	· 60   60   60   60   60   60   60   60		Oy 82 CTGCTGCTGCTGCTGCTGGCCCGGGCGGACGACGACGACGACGACGTATCAAGATAAA 141	Db 73 GAGGAAGTIGICTIAIGGAIGAATACTGTIGGGCCCTACCAIAATCGTCAGAAACAIAT 201	Oy 202 AAGTACTTTCACTTCCATTCTGTGGGGGTCAAAAAAAGTATCAGTCATTACCATGAA 261	by 262 ACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTGGTCTCGGATATTAAATTT 321	Oy 322 AAAGAIGAIGAGACCACCACTIACIGIGAAATIGAITIAGAIAAAGAAAAGA	Oy 382 GCATTTGTATATGCCATAAAAATCATTACTGGTACCAGATGTACATAGATGATTACCA 441	Oy 442 ATAIGGGGTAITGTIGGTGAGGCTGATGAAAATGGAGAGAATTACTATCTTTGGACCTAT 501	Oy 502 AAAAAACITGAAAIAAGITITAAICGAAAITGTGAIGAITAAICTAACIAGIGAA 561 	Qy 562 GGBABGGTGBARCTGGTTCCAABTRCTABATCCAGATGTCATATTCAGTABAATGGBAA 621	Oy 622 AAGTCAGATGTGAATTTGAAGATCGATTTGACAAATATCTTGATCGTCCTTTTTTCAA 681 Db 553 AAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCGTCCTTTTTTTCAA 612	Qy 682 CATCGGAITCATIGGTTITCAATITTCAACTCCTICATGAIGGTGAICTTCTIGGTGGGC 741	Db 613 CATCGGATTCATTTCAATTTTCAACTCCTTCATGATGGTGATCTTCTTGGTGGGC 672
QY         982 ACTGAGAGGGATCAATGCTCAGTACAGCCATATTGTCTATGCTGCTACGTCTCCAGTG         1041           Db         913 ACTGAGAGGGATCATGCTCAGTACAGCCATATTGTCTATGCTGCTACGTCTCCAGTG         972           QY         1042 AATGGTTATTTGGAGGAACTCTGTATGCTACACAGAGGAAGGA	1093 TICATAGCATTTATTACCATGCTTCAAAAGCCATTCCTTTTGGAACATGGTGGCCGTT 1222 TGTTGCATCTTTTTTTTTTTTTTTCTTCTTCTTGTAATCTTGTTGGTACATACTTGGCCGTT 1153 TGTTGCATCTGTTTTTTTTTTTTTTTCTTCTCTCTAAATCTTGTTGGTACATACTTGGCCGA 1153 TGTTGCATCTGTTTTTTTTTTTTTTTTTTCTTCTTCTTGTTGGTACATACTTGGCCGA 1282 AATCTGTCAGCCCAACTTTCTTTTTTTTTTTTTTTTTTT	1213 AATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTCAATGCTGTCGTGTCGTATACCG 1272	Oy 1402 GGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTAT 1461 	Qy         1462         TATGITC'ARGGCITCATGATGCIGGTGCTGGTTATCCTGTGCATTGTGACTGTCTGTGTG         1521           Db         1393         TATGTCTATGGCTTCATGATGCTGGTGGTTATCCTGTGCATTGTGACTGTCTGT	OY         1522         ACTATTGTGCACATATTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGT         1581           DD         1453         ACTATTGTGTGCACATATTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGT         1512	Oy 1582 ITTCTCTGCTGCATCAACTGCAATCTATGTTACATGTATTCCTTTTACTACTATTT 1641	OY 1642 TTCAAAAGAAGATGTATGAACATGTTTCAAACATGATTTTACTTTGGATATATGGGGGTA 1701  Db 1573 TTCAAAAGAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATATGGGGGTA 1632	Oy 1702 TITAGCA.CGTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTT 1761 	OY 1762 GTCCGAAAAATCTATACTAAAAATTGACTAGAGACCCAAGAAAACCTGGAACTTT 1821 	Oy 1822 GGATCAATTTCTTTTCATAGGGGTGGAACTTGCACAGCAAAACAAAC	Qy         1882 GAGATTIGGGCTITAACTTITITITITITITITITITITITIT         1926           Db         1813 GAGATTIGGGCTITAACACACTGGGTACTTIGTGGGTCTCTTT         1857	RESULT 8 US-10-277-802-29	; Sequence 29, Application US/10277802 ; Publication No. US20030190707A1 GENERAL INFORMATION	; PEPLICANT: Rosen et al. ; TITLE OF INVENTION: 17 Human Secreted Proteins

1513 TITCTCTCTGCTGCATCAACTGCAATCTTTACATTTCCTTTACTACTATTTT   1572	GAGATTT GAGATTT ', Appli No. US2 NRMATION WAINEY-'	APPLICANT: Brooksbank, Robert APPLICANT: Pronock, Robert APPLICANT: Pinnock, Robert TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain FILE REFRENCE: WL-A-018200 CURRENT APPLICATION NUMBER: US/10/205,219 CURRENT FILING DATE: 2002-07-24 FRIOR APPLICATION NUMBER: GB 0118354.0	Alling Dals: A	<pre> // OTHER INFORMATION: EF/O-F-180  US-10-205-219-122  Query Match     B4.4%; Score 1749.4; DB 6; Length 3389;  Best Local Similarity 98.2%; Pred. No. 0;  Matches 1833; Conservative 0; Mismatches 26; Indels 8; Gaps 6;  Qy 61 GCGGCCGCGCGCGCTGTGCTGCTGCTGCTGCTCCCCGGACCGACC</pre>	Db 50 GGGCCGCGCGCTGTGCTGCTGCTGCCCCGGACCCGGACGCGCC 109  Qy 121 GAACACACGTATCAAGATAAAGAGAAGTTGTCTTATGATGATACTGTTGGCCCTAC 180  Db , 110 GAACACACGTATCAAGATAAAAGAGAAGTTGTCTTATGATGATACTGTTGGCCCTAC 169  C) V 181 CAATGGTCAAGAAAAAAAAAAAAA 240		
ANNANCTIGAANTAGGTTTAATGGAATTGTTGTTGTTTATCTAACTGGAA GGAAAGGTGAAACTGGTTCCAAATACGAATTGTTGTTGTTAATCTAACTGGAA GGAAAGGTGAAACTGGTTCCAAATACTAAAATCGAATTGTTGTTATTCACTAAAATGGAAA GGAAAGGTGAAATTTGAAATTTTGAAAATTGAAAATTGCAAATATCTTGATCCGTCCTTTTTTCAA AAGTCAGATGTGAAATTTGAAGATGGATTTGACAAATATCTTGATCCGTCCTTTTTTCAA AAGTCAGATGTGAAATTTGAAGATGGATTTGACAAATATCTTGATCCGTCCTTTTTTCAA CATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGGTGGTCGTCCTTTTTTTCAA CATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGATCTTTTTTTT	802 GAAGAATIGGATGATAATAGATAAGACTAGGAATGAATAGAATA	982 ACTGAGAGGGATCAATGCTCAGTACACATATTTGTCTATGCTGCTACGTCTCCAGTG 1041	1102 AIGTITATIGGGGGATTCCTTATCCCAGCTATGGTGTGGGCACTGCCTTCTTCATCAAT 1161	1222 TGTTGCATCTGTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACAATACTTGGCCGA 1281 1153 TGTTGCATCTGTTTTTTTTGTTATTCTTCTCTCTAAATCTTGTTGGTACAATACTTGGCCGA 1212 1282 AATCTGTCAGGTCAGGCCCAACTTTCCTTGTCGTGTCATGCTGTGCTGTCCTGTGCTGTGTCTTATCGT 1341 1213 AATCTGTCAGGTCAGCTCACTTTTCTTGTCGTGTCAATGCTGTGCTGTCCTATACCG 1341 1213 AATCTGTCAGGTCAGCTCAACTTTCCTTGTCGTGCTAATGCTGTCCTGTCCTATACCG 1272	1342 GAGAAAAATGGTTCATGGAGCCTGCGGTTATTGCTTGCCTGGGTGGAATTTTACCTTTT	31G1G	1522 ACTATIOTGTCCACATATTTCTACTAAATGCAGAAATTACCGGTCGCATGGACAAGT 1581 1453 ACTATIOTGTGCCACATATTTCTACTACTAGAGATTACCGGTGCCATGGACAAGT 1512 1582 TITCTCTCTGCTGCATCAACTGCAATGTTACAGATTACCGTTTTACTACTATTT 1641

6 8 6 8 6 8 6 8 6 8 6

සි පි

8 B

1423	RESULT 11 US-10-956-157-2297    Joseph	Query Match         84.4%;         Score 1749.4;         DB 9;         Length 3389;           Best Local Similarity         98.2%;         Pred. No. 0;         Matches 1833;         Conservative         0;         Mismatches 26;         Indels 8;         Gaps         6;           Qy         61         GGGGCGCGCGCGCTGTGGCTGCTGCTGCTGCTGCTGCTGC
361 TTAGATAAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAATCATTACTGGTACCAG 409 350 TTAGATAAAAAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAG 409 421 ATGTACATAACATTACCAATTACGAGTATTGTTGGTGAGGCTATGAAAATGGAAA 480 410 ATGTACATAGATGATTACCAATTACGAGTATTGTTGGTGAGGCTATGAAAATGGAAA 480 411 ATGTACATACTATGAATGAATAAAAAATTGTTGGTGAGGCTATGAAAAAAAGAATGAAAAAAAA	900 TICCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGT 959 886 TICCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTTGTTGTTATTATTGT 945 806 TICCTCCTCTGATTGGTTCTGGATGTCAGTGTCTCTCTCTCT	1200 TITIGGAACAAIGGIGGCCGITIGITGITTITIGITATICTICCICTAAAICT 1259  1184 TITIGGAACAAIGGIGGCCGITIGITGCACCIGTTITITIGITATICTICCICTAAAICT 1243  1260 TGTIGGTACAAIACTIGGCCGAAAICTIGCAGCCCAACTITCCTICCTCTAAAICT 1243  1244 TGTIGGTACAAIACTIGGCCGAAAICTIGCAGCCCAACTITCCTTGTCGTGCAA 1319  1320 TGCTGGCCTCGTCCTATACCGAGAAAAAAGGTTCATGGAGCCTGCGGTTATTGTTA 1379  1304 TGCTGGCCTCGTCCTATACCGAGAAAAAATGGTTCATGGAG-CTGCGGTTATTGTTG 1379  13104 TGCTGGGCTCGTCCTATACCGAGAAAAAATGGTTCATGGAG-CTGCGGTTATTGTTTG 1379  13104 TGCTGGGGTGGAATTTTACCTTTTAGTTCAATGTTCATGTTTCATCTTCACGTC 1439  1363 CCTGGGTGGAATTTTACCTTTTTGGTTCAATGTTTATTGAAATGTTTTCATCTTCACGTC 1439  11440 TITCTGGGCAAATTTAACCTTTTAATGAATGTTATTGAAATGTTTCATCTTCACGTC 1439

1379

1303

1499 1482 1559

```
TGCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAG-CTGCGGTTATTGTTTG 1362
                                                                                                                                                       CCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTAATTGAAATGTATTTCATCTTCACGTC 1439
                                                                                                                                                                         CCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAAFGTATTTCATCCATCTTCACGTC 1422
                                                                                                                                                                                                                                                                                                                                                                        TTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACAT 1602
                                                                                                                                                                                                                                                                                                                                                                                                                        Grecarrereacrererereacrarrererececararrrrrrreracraarecadadea 1542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TTACATGGGAACAAGTGCCTTTGTCCGAAAATCTATACTAATGTGAAAATTGACTAGAG 1799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCCAAGAAAACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAG 1859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: LOCATION, Jeanne F.; Kaser, Matthew R.
TITLE OF INVENTION: MARKERS OF NEURONAL DIFFERENTIATION AND MORPHOGENESIS
FILE REFERENCE: PA-0026-1 CIP
CURRENT APPLICATION NUMBER: US/10/062,674
CURRENT FILING DATE: 2002-01-30
PRIOR PILING DATE: 2002-07-24
NUMBER OF SEQ ID NOS: 2217
SOFTWARE: PRL PROGram
SEQ ID NO 1697
LENGTH: 6197
                                                             1244 TGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAA
                                                                                            TGCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGG
                                                                                                                                                                                                                                                1423 TTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCT
                                                                                                                                                                                                                                                                                 GTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTTCTACTAAATGCAGAAGA
                                                                                                                                                                                                                                                                                                                                             TTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACAT
                                                                                                                                                                                                                                                                                                                                                                                                         GTATICCITITIACTACTATITITICAAAACAAAGAIGIAIGGCTIATITICAAACAICATI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITCIGGGCATATAAGAICTATTAIGICTAIGGCITCAIGAIGCIGGIGCIGGTTAICCI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: misc feature
OTHER INPORMATION: Incyte ID No. US20040005559A1 233927.4
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1697, Application US/10062674; Publication No. US20040005559A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCTCTTT 1909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-062-674-1697
   1184
                                                                                            1320
                                                                                                                         1304
                                                                                                                                                                                                                                                                                                                                             1560
                                                                                                                                                                                                                                                                                                                                                                          1543
                                                                                                                                                       1380
                                                                                                                                                                                    1363
                                                                                                                                                                                                                   1440
                                                                                                                                                                                                                                                                                                              1483
                                                                                                                                                                                                                                                                                                                                                                                                         1620
                                                                                                                                                                                                                                                                                                                                                                                                                                        1603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1860
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1903
                                                                                                                                                                                                                                                                                 1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
                                                       셤
                                                                                         ò
                                                                                                                                                   ò
                                                                                                                                                                             원
                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                           ğ
                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTGTTATTCTTCTTAAATCT 1259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGCAATGATAGAAGATTTATATATACTGAGAGGGATCAATGCTCAGTACAGCCATATTTGT 1019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGG 1079
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1080 AGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCCATTCCTTATCCCAGCTATGGTGTG 1139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1140 TGGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCC 1199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1124 GTGCACTGCCTTCTTCATCATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCC 1183
240
                                                                            229
                                                                                                         300
                                                                                                                                        289
                                                                                                                                                                     360
                                                                                                                                                                                                   349
                                                                                                                                                                                                                                  420
                                                                                                                                                                                                                                                               409
                                                                                                                                                                                                                                                                                              480
                                                                                                                                                                                                                                                                                                                             469
                                                                                                                                                                                                                                                                                                                                                           540
                                                                                                                                                                                                                                                                                                                                                                                         529
                                                                                                                                                                                                                                                                                                                                                                                                                         599
                                                                                                                                                                                                                                                                                                                                                                                                                                                       589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   647
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  719
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               705
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          839
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     885
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    959
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 945
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              779
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           765
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 899
                                                                                                         AGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTT
                                                                                                                                                                                      350 TIAGATAAAGAAAAGAGAGAGGATTGTTGTATATGCCATAAAAAATCATTACTGGTACCAG
                                                                                                                                                                                                                                                                                                              GTCATATTCAGTAAAATGG-AAAAGTCAGATGTGAAATTTGAAGATCGATTTGAC-AATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATATGGATGGAAACAGGTGCATGGAGGATGTATTTAGACCCATCAAGTCACCCACTGATATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTATGCTGCTACGTCTCCAGTGAATGCTTATTTTTGGAGGAAGTCTGTATGCTAGACAAGG
                                                               170 CATAATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGGTCAAAAAAA
                                                                                                                                230 AGTATCAGTCATTACCATGAAACTCTGGGAGAACTACAACTTCAAGGGTTGAATTGGAATTT
                                                                                                                                                                     GATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTTAATGGAAATTGAATTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                        GATGTTAATCTAACTAGTGAAGGTGAAACT-GGTTCCAAATACTAAAATCCAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                          GTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGCAATGATAGAAGATTTATATACTGAGAGGGATCAATGCTCAGTACAGCCATATTTGT
                                           CATAATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGGTCAAAAAA
                                                                                                                                                                                                                                  TTAGATAAAGAAAAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAG
                                                                                                                                                                                                                                                                                              ATGTACATAGATGATTTACCAATATGGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA
                                                                                                                                                                                                                                                                                                                                                           GATTACTATCTTTGGACCTATAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCTTGATCCGTCCTTTTTCAACATCGGATTCATTGGTTTTTCAATTTTCAACTCCTTCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCTTGATC--GTCCTTTTTTCACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTATGCTCGGTACAGTAAAGAGGAAGAATGGATGATATGGATAGAGATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TICCICICICATIGGIICIGGAIGICAGAIATIIGCIGIGICICICACGIIATIAITGI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1020
                                           181
                                                                                                         241
                                                                                                                                                                     301
                                                                                                                                                                                                                                361
                                                                                                                                                                                                                                                                                              421
                                                                                                                                                                                                                                                                                                                                                          481
                                                                                                                                                                                                                                                                                                                                                                                         470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           904
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1006
                                                                                                                                                                                                                                                                                                                                                                                                                         541
                                                                                                                                                                                                                                                                                                                                                                                                                                                       530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     826
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               946
                                  õ
                                                                    8 & 8
                                                                                                                                                                  ઠે
                                                                                                                                                                                            a
                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                        ద
                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
```

Š

g ò

ò

ò 8.8 셤

ò

ઠ

ò

ò q a ò qq ò

ઠે

1679

1739

```
Sequence 1414, Application US/10264237
Publication No. US20040009491A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 14
US-10-264-237-1414
È
                                                               38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTCTGGATGTCAGATATTTGCTGTGTCTCTCATC-GTTATTATTGTTGCATGATAGAAG 973
                                                                                 119
                                                                                                                     177
                                                                                                                              CGAACACACGTGTCAAGATAAAGGAAGTTGTCTTATGGATGAATACTTGTTGGGCCCT 120
                                                                                                                                                         234
                                                                                                                                                                    121 AACAAAATTCGTCAGAAAACTTTTAAGTACTTTTCACTTCCCATTCTGTGTGGGGTCAAAA 180
                                                                                                                                                                                              294
                                                                                                                                                                                                                 240
                                                                                                                                                                                                                                 GAATTTAGTGGTCTGGATATTTAAAGATG-ATGTGATGCCAGCCACTT-ACTGTG 352
                                                                                                                                                                                                                                                     300
                                                                                                                                                                                                                                                                       410
                                                                                                                                                                                                                                                                                 467
                                                                                                                                                                                                                                                                                                                             420
                                                                                                                                                                                                                                                                                                                                                522
                                                                                                                                                                                                                                                                                                                                                           ACTGGAAATCGGAAGTTGTTGTTATGTTATCTAACTACGTGAAGAGAAAGAGTGAAACA 540
                                                                                                                                                                                                                                                                                                                                                                                                                                   690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                914
                                                                                                                                                                                                                                                                                                                                                                                    574
                                                                                                                                                                                                                                                                                                                                                                                                                         631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           857
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                            GAATTTAGTGGTCTGGATATTAAATTTTAAAGCTGCATGTGATGCCACCACCTCCACTGTG
                                                                                                                                                                                                                                                                                                          CTGGTACCAG-ATGTACATAG--ATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGA
                                                                                                                                                                                                                                                                                                                  GCAT --GGAGATGTATTTAGACCAT-CAAGTCACCCACTGATATTTTCCTCTCTGATTGG
                                                                                          CGAACACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACT - - GTTGGGCCC
                                                                                                                                                         TACCATAATCGTCAAGAACATATAAGTACTTTTCACTTCCATTCTGTGGGGGTC---A
                                                                                                                                                                                              AAAAAAAGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGGTTGAATTG
                                                                                                                                                                                                                                                                       AAATTG-ATTTAGATAAAG-AAAAGAGAGATGCATTTGTATATGCCATAAAAATCATTA
                                                                                                                                                                                                                                                                                                                                                TGAAAATG-GAGAAGATTACTATC--TTTGGACCTATAAAAACTTGAAAT--AGGTTTT
                                                                                                                                                                                                                                                                                                                                                                                    AATGGAAATCGAATTGT-----TGATGTTAATCTAACTAGTGAAGGAAAGGTGAAAC
                                                                                                                                                                                                                                                                                                                                                                                                                         TGGTTCCAAATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAAAAGTCAGA---TG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGTITICAATGATTTTTAATGAGAACA---TTAAGAAAAGATTATGCTCGGTACAGTAAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGAAGAATGGATATGGATAGAGACCTAGGAGATGAATATG---GATGGAAACAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     97; Gaps
                                           Length 6197;
                                           Score 1051; DB 6; Length 6
Pred. No. 1.6e-230;
0; Mismatches 211; Indels
                  or other
                  ģ
                                           50.7%;
ilarity 84.3%;
Conservative (
; NAME/KEX: unsurc; i.CCATION: (1) ... (6197); OTHER INFORMATION: a, t, c, US-10-062-674-1697
                                           Query Match
Best Local Similarity
Matches 1654; Conserv
                                                                                                                     120
                                                                                                                                       61
                                                                                                                                                         178
                                                                                                                                                                                              235
                                                                                                                                                                                                                 181
                                                                                                                                                                                                                                  295
                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                       353
                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                           411
                                                                                                                                                                                                                                                                                                                             361
                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                     523
                                                                                                                                                                                                                                                                                                                                                                                                      481
                                                                                                                                                                                                                                                                                                                                                                                                                                            541
                                                                                                                                                                                                                                                                                                                                                                                                                                                              632
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       901
                                                                                                                                                                                                                                                                                                                                                 468
                                                                                                                                                                                                                                                                                                                                                                                                                         575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 828
                                                                                  8 8
                                                                                                                8 6 8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   සි සි
                                                                                                                                                                                           ठ व
                                                                                                                                                                                                                                õ
                                                                                                                                                                                                                                                   В
                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                       ∂
                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                       요
                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ठे
```

È	974	ATTTATATACTGAGAGGGGTCAATGCTCAGTACAGCCATATTTGTCTATGC-TGCTACG 1032
ф	196	ATTAATATATACTGAGAGGGATGAATGCTCAGTACAGCCATATTTGTCTAAGCTTGCTACG 1020
Š	1033	TCT-COAGTAAATGGTTATTTTGGAAGAAGTCTGTATGCTAAGACAAGAAGAAGA 1091
ą	1021	108
ò	1092	GATAAAGCACAAGTITTATTGGGGCATTCCTTATCCCAGCTATGGTG 1137
ф	1081	deraraaagecagaargerrraarrriggggeerricerrraarrreceaageraarreg 1140
λ̈́o	1138	118
Ωp	1141	GTIGITGIGGCCAACTIGCCCTITCTTCATCATTTCATAGCCATTTATTACCATGCTT 1200
ò	1187	12
<b>Q</b>	1201	126
È	4	30
д	1261	132
ò	1305	Ŋ
qq	1321	recrierestateariscreresecrererecearaseacacacacagarearis 1380
ò	1360	GAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTTGGTTCAATCTTTATTGAA 1419
οqα	1381	144
ò	1420	ARGIATITCATCTICACGICTITCIGGGCATATAAGAICTATTATGICTATGGCTICATG 1479
qq	1441	AIGHAITTCAICTTCACGICTTTCTGGGCALATAAGAICTATTATGTCTATGGCTTCATG 1500
ò	1480	AIGCIGGIGCIGGITAICCIGIGCATIGIGACTGICIGIGIGAGCIATIGIGGGCACATAT 1539
qa	1501	AIGCIGGIGCIGGITALCCIGIGCALIGIGACIGICIGIGAGCIALIGIGIGCACATAL 1560
'n	1540	TITCTACTAANGCAGAAGATTACCGGTGGCAATGGACAAGTTTTTCTCTCTGCTGCATCA 1599
qq	1561	TITCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGGATCA 1620
à	1600	ACIGCAAICIAIGITIACAIGIATICCITITACIACIATITITICAAAACAAA 1652
qq	1621	ACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATGTTTTTCGAAAAAAAA
ò	1653	171
ор	1681	174
È	1711	GCCTIGGGGATAAIGIGIGGAGCGATIGGTTACAIGGGAACAAGIGCCTTTGICCG 1766
οp	1741	GICCTIGGGGAIAIATGIGGGGGAGGGAIATGGITACAIGGGAAAAAGIGCCTITGICCG 1800
È	1767	AAAAATCTATACTAATGTGAAAATTGACTAGAGACCCAAGAAAACCTGGAACTTT-GGAT 1825
qq	1801	AAAATCTATACTAATGTGAAAATTGACTAGAGACCCAAGAAAACCTGGAACTTTGGGAT 1860
δ	1826	CAATITICTITITICATAGGGT-GGAACTIGCACAGCAAAAACAAACGAAAGGAAGAG 1884
qq	1861	CAAITICITITICATAGGGGTGGGAACTTGCACAGAAAACAAAAC
ò	1885	AITTGGGCTTTAACTTTTTTTTTTTTTTTTTTTTTTTTTT
q	1921	Arriodocirralcacaciogoracrirorogorcicriri 1962

```
TITATIGAAAIGTATITCATCTICACGICTITCIGGGCATATAAGAICTATTAIGICTAT 1470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTTTCAAAACAAGATGTA 1658
   1171 ATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCGGTTTGTTGCATC 1230
                                                                                                                                                  GGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAA 1350
                                                                                                                                                                                                                           TGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATC 1410
                                                                                                                                                                                                                                                                                                                                                                            1659 TGGCTTATTTCAAACATCATTTTACTTTGGATATATGGGGGTATTTAGCACAGGCCTT-GG 1717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTAATGTGAAATTGACTAGAGACCCAAGAAACCTGGAACTTTGGATCAATTTCTTTTT 1837
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CATAGGGGTGGAACTTGCACAGCAAAACAAACGCAAGGAGGAGAGACATTTGGGCTTTAA 1897
                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGATAATGTGGGAGCGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATA 1777
                                                                                                               200 TGTTTTTTTTTTTTCTTCTTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCA 259
                                                                                                                                                                      560 ATTIATCTICTICCCCCCCCCCCAGGCAATGACAAGTTITCTCTCTCTGCTGCATC 619
                           140 ATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATC 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         620 AACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTA 679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGATAATGTGTGGGAGCGATTGGTTACATGGGAACAAGTGCCTTTGTCCGGAAAATCTTAT 799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTAATGTGAAAATTGACTAGAGACCCAAGAAAACCTGNAACTTTGGATCAATTTCTTTTT 859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          860 CATAGGGGTGGAACTTGCACAGCAAAAACAAACGAAGAAGAAGAAGATTTGNGCTTTAA 919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cacaciogogiacititogogogicicititogicogogogitaannaacaiciair 976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 13, Application US/09915582
Fatent No. US20020120103A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: 17 Human Secreted Proteins
FILE REPERENCE: PS723P1
CURRENT FILING DATE: 2001-07-27
PRIOR APPLICATION NUMBER: PCT/US01/01431
PRIOR FILING DATE: 2001-01-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-915-582-13
                                                                            1231
                                                                                                                                                                                        260
                                                                                                                                                                                                                             1351
                                                                                                                                                                                                                                                                320
                                                                                                                                                                                                                                                                                               1411
                                                                                                                                                                                                                                                                                                                                                                                                                   440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     089
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1718
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1838
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         920
                                                                                                                                                    1291
                                                                                                                                                                                                                                                                                                                                                                              1471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1778
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1898
                                                                                                                                                                                                                                                                                                                                          380
                                                                          δ
                                                                                                           g
                                                                                                                                                ઠે
                                                                                                                                                                                  a
                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1111 GGGGCATTCCTTATCCCAGCTATGGTGTGGCACTGCCTTCTTCATCAATTTCATAGCC 1170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    80 GGGGCATTCCTTATCCCAGCTATGGTGTGGCCACTGCCTTCTTCATCAATTCATAGCC 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20 TTTGGAGGCTCTCTNTATGANAGACAAGGAGGAGGACATGGATAAAGCAGATGTTTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               53;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 36.2%; Score 749.6; DB 6; Length 1070; Best Local Similarity 89.4%; Pred. No. 1.3e-161; Matches 856; Conservative , 0; Mismatches 48; Indels 53;
APPLICANT: Birse et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies FILE REFERENCE: PA131P1
CURRENT APPLICATION NUMBER: US/10/264,237
CURRENT FILING DATE: 2002-10-04
PRIOR APPLICATION NUMBER: PCT/USO1/16450
PRIOR PILING DATE: 2001-05-18
PRIOR FILING DATE: 2001-05-18
PRIOR FILING DATE: 2000-05-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            or c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; NAME/KEY: misc_feature
; LOCATION: (1047)..(1047)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-264-237-1414
                                                                                                                                                                                                                                                                                                                                              ör
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        占
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE: NAME/KEY: misc_feature
LOCATION: (1025)..(1025)
OTHER INFORMATION: n equals a,t,g,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAME/KEY: misc feature
LOCATION: (837)...(837)
THER INFORMATION: n equals a,t,g,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: misc feature
LOCATION: (956)...(956)
OTHER INFORMATION: n equals a,t,g,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: misc feature
LOCATION: (965)..(966)
OTHER INFORMATION: n equals a,t,g,
                                                                                                                                                                                                                                                                                                                           OCATION: (34)..(34)
THER INFORMATION: n equals a,t,g,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: misc feature
LOCATION: (529)..(529)
OTHER INFORMATION: n equals a,t,g,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LÒCATION: (557)...(557)
OTHER INFORMATION: n equals a,t,g,
                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: misc_feature
LOCATION: (40)..(40)
OTHER INFORMATION: n equals a,t,g,
                                                                                                                                                                                                                                                                                                                                                                                                                                                      AME/KEY: misc feature
OCATION: (525)..(525)
THER INFORMATION: n equals a,t,g,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCATION: (912)..(912)
OTHER INFORMATION: n equals a,t,g,
                                                                                                                                                                                    SOFTWARE: Patentin Ver. 3.1
SEQ ID NO 1414
LENGTH: 1070
                                                                                                                                                                    NUMBER OF SEQ ID NOS: 2876
                                                                                                                                                                                                                                            TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                     NAME/KEY: misc_feature
LOCATION: (34)...(34)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       misc feature (557)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: misc feature
LOCATION: (912)..(912)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY:
```

g ઠ

ò

```
CAACTITCCTTGTCGTGTCAATGGTGTCCCTCGTCCTATACCGGAGAAAAATGGTTCAT 1358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1718
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1359 GGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGA 1418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGA 198-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1419 AATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCAT 1478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1479 GATGCTGGTGGTTATCCTGTGCATTGTGACTGTCTGTGACTATTGTGTGCACATA 1538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITICIACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATC 1598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTCAAAACAAAGATGTA 1658
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GATAATGTGGGGGGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATAC 1778
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TAATGTGAAAATTGACTAGAGACCCAAGAAAACCTGGAACTTTGGATCAATTTCTTTTTC 1838
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATAGGGGTGGAACTTGCACAGCAAAAACAAACGAAAGGAAGAAGAGATTTGGGCTTTAAC 1898
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   79 CAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCAT 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     199 AATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCAT 258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        439 recertarreaacarcarratracrrregarararececerarraceacacecrrege 498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                499 GATAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATAC 558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACGCTTGGG
                                                                                                                                                                                                                                                                                                                                                                       1239 TGTTATTCTTCCTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                        559 TAATGTGAAAATTGACTAGAGGACCCAAGAAAACCTGGAACTTTGGATCAATTTCTTTTTC
                                                                                                                                                                                                                                                                                                                           ;
                                                                                                                                                                                                                                                                     Score 656; DB 3; Length 1867;
Pred. No. 5.7e-140;
0; Mismatches 20; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1899 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               679 ACACTGGGTACTTTGTGGGTCTCTTTT 706
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION WUMBER: 60/231,968
PRIOR FILING DATE: 2000-09-12.
NUMBER OF SEQ ID NOS: 97
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 13
LENGTH: 1867
                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 97.1%;
Matches 668; Conservative
                                                                                                                                                                        ; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-915-582-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1779
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1839
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1659
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1719
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                619
```

Search completed: March 11, 2006, 04:54:22 Job time : 1704.01 secs

```
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ଚ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 4967, Ap
Sequence 1325, Ap
Sequence 1309, Ap
Sequence 1699, App
Sequence 50, Appl
Sequence 49, Appl
Sequence 21, Appl
Sequence 724812,
Sequence 724812,
Sequence 478, App
Sequence 478, App
Sequence 478, Appl
Sequence 478, Appl
Sequence 478, Appl
Sequence 4690, Appl
Sequence 4690, Appl
Sequence 4690, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 3987, Ap
Sequence 312, App
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 345, Apr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 3987, Ar
                                                                                                                                      March 10, 2006, 22:05:49; Search time 664.273 Seconds (without alignments) 7196.920 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 345,
                                                                                                                                                                                                                                                                                            1 ggatccactagtaacggccg......cgctcgagcatgcatctaga 2072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Published Applications NA New:*

1: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*

2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*

3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*

4: /cgn2_6/ptodata/2/pubpna/NSO7 NEW_PUB.seq:*

5: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*

6: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*

7: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*

8: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*

9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*

10: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*

11: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*

12: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*

13: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*

13: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
GenCore version 5.1.7 Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-11-072-512-1699
US-11-240-769-50
US-11-240-769-29
US-11-240-769-21
US-11-000-688-313
US-09-925-065A-724812
US-10-932-182A-478
US-10-932-182A-4690
US-10-932-182A-4690
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                 7673375 segs, 1153648444 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                          IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query
Match Length DB
                                                                                                                                                                                                                                            US-10-755-466-1
2072
                                                                                                                                                                                                                                            Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                            Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                169.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Database :
                                                                                                                                                                                                                                                                                            Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                   Searched:
                                                                                                                                                Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Result
No.
```

Sequence 134719,	US-09-925-065A-134719	486 6	2.4	49	45	υ
	US-09-925-065A-134717	486 6	2.4	49	44	U
	US-09-925-065A-474669	534 6	2.4	49.6	43	υ
	2 US-11-121-086-102	182190 1	2.4 18	49.8	42	
Sequence 488892,	US-09-925-065A-488892	627 6		49.8	41	
Sequence 736760,	US-09-925-065A-736760	505 6	4.4	49.8	40	
Sequence 736759,	US-09-925-065A-736759	505 6	2.4	49.8	39	
Sequence 3758, Ap	US-10-310-914A-3758	106 8	2.4	49.8	38	
Sequence 924411,	US-09-925-065A-924411	704 6	2.4	20	37	
Sequence 134718,	US-09-925-065A-134718	486 6	2.4	20.6	36	U
Sequence 107, App	US-10-986-501-107	687 8	2.5	52	35	<b>:</b>
	US-09-925-065A-480255	516 6	2.5	52.2	34	υ
Sequence 81876, A	US-10-932-182A-81876	384 7	2.5	52.6	33	
	US-10-932-182A-81876	384 7	2.5	52.6	32	
	US-10-909-125-1744	_	5.6	53.2	31	O
25835	US-11-096-568A-25839	1488 9	5.6	53.8	30	O
	ns-		2.9	59.6	53	
Sequence 173986,	US-10-932-182A-173986	1083 7	5.9	60.4	28	
Sequence 173986,	US-10-932-182A-173986	1083 7	5.9	60.4	27	
Sequence 173463,	US-10-932-182A-173463	465 7	3.4	69.8	56	
Sequence 173463,	US-10-932-182A-173463	465 7	3.4	69.8	25	
Sequence 799365,	US-09-925-065A-799365	623 6	4.6	96	24	υ
	US-10-932-182A-173799	636 7	8.8	98.8	23	
Sequence 173799,	US-10-932-182A-173799	636 7	4.8	98.8	22	
Sequence 1308, Ap	2 US-11-000-688-1308	424 1	4.9	101.6	21	

## ALIGNMENTS

us-10-755-466-1.rnpbn

```
Sequence 1325, Application US/11128049

| Sequence 1325, Application US/11128049
| Publication No. US20060010513A1
| GENERAL INPORMATION:
| APPLICANT: Melville, Mark W. |
| APPLICANT: Melville, Mark W. |
| APPLICANT: Mounts, William W. |
| APPLICANT: Mounts, William W. |
| APPLICANT: Honn, Louane E. |
| APPLICANT: Leonard, Martin S. |
| APPLICANT: Leonard, Mark W. |
| APPLICANT: Miller, Christopher P. |
| TITLE OF INVENTION: MAKING SAWE |
| TITLE OF INVENTION: UNBER: US 60/570,425 |
| PRIOR APPLICATION NUMBER: US 60/570,425 |
| PRIOR MILLER PRIOR MILLER PRIOR PRIO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1449
                                                                                                                                                                                                                                                                                                                                                          1329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1089
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          480
                                                                                                                                                                                                                                                                                                360
                                                                                                                                                                                                                                                                                                                                                                                                                       420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1390 ATTTACCTTTTGATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGGA
                                      181 IGGATAAAGCAGAIGTITATIAGGGCAITCCTIATICCAGCIAIGGTCGTGGGCACTGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1330 CGTCCTATACCGGAGAAAAAGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGAA
                                                                                                                                                                             241 TTCTTCATCAACTTTATAGCCATTTATTATCATGCCTCTAGAGCCATTCCTTTTGGAACA
                                                                                                                                                                                                                                                                                                301 ArcciccocrircinccarcistririristraticirciciaAArcircircaAca
                                                                                                                                                                                                                                                                                                                                                             1270 ATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCTG
                                                                                                                                                                                                                                                                                                                                                                                          361 ATACTTGGCCGAAATCTGTCAGGTCAGCCCCAACTTCCCCTGTCGTGTCAATGCTGTGGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481 ATTTTACCATTTGGCTCCATCTTCATTGAAATGACTTCATCGTAACATCTTTCTGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCTCTTATTATTATTGTTGCCATGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121 ACATCTCCAGTGAATGGGTATTTTGGAGGAAGTCTGTATGCCAGACAAGGAGGAGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          421 GGrecrateceagacaaaararagrirarggarecrecarriraregriregeracea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       970 GAAGATTTATATACTGAGAGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 12; Length 570;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                910 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indela
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23.3%; Score 482.8; DB 12; ilarity 91.6%; Pred. No. 5.8e-64; Conservative 0; Mismatches 47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TATAAGATCTA-TTATGTCTATGGCTTCAT 1478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541 racaagacccacrrargrererargecrrrar 570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA ORGANISM: Cricetulus griseus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity
Matches 522; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-11-128-049-1325
                                                                                                                   1150
                                                                                                                                                                                                                                          1210
060
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                            ٠6٠
                                                                                                                                                                                                                                          δ
                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ሯ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 4967, Application US/11128061

Publication No. US20060003958A1

GARDRAL INFORMATION:
GARDRAL INFORMATION:
GARDRAL INFORMATION:
MAIVILEAWT: Melville, Mark W.
APPLICAWT: Melville, Mark W.
APPLICAWT: Hann, Louane B.
APPLICAWT: Hann, Louane B.
APPLICAWT: Brown, Bugene L.
APPLICAWT: Brown, Bugene L.
APPLICAWT: Miller, Christopher P.
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
TITLE OF INVENTION: TO MONITOR GENE EXPRESSION
FILE REFERENCE: 01997.027701
CURRENT APPLICATION NUMBER: US 60/570,425

FRIOR FILING DATE: 2005-05-11
PRIOR APPLICATION NUMBER: US 60/570,425

NUMBER OF SEQ ID NOS: 7285

NUMBER OF SEQ ID NOS: 7285

SOFTWARE: PALENTIN VERSION 3.3
                                                                                                                   1209
                                                                                                                                                                                                                                          1269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1330 CGICCIAIACCGGAGAAAAAIGGIICAIGGAGCCIGCGGIIAITGIITGCCIGGGIGGA 1389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1390 ATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCA 1449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             970 GAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCT 1029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1030 ACGICICCAGIGAAIGGITATITIGGAGGAAGICTGTATGCTAGACAAGGAGGAAGGAGA 1089
                                                                                                                                                                                                                                                                          301 AIGGIGGCCGTTIGTIGCALCIGITITITIGTIATICTTCCTCTAAATCTIGGTAGA 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421 GGICCIAICCCAGACAAATAIGGIITAIGGAICCIGCAITIAICGIICGCCIGCIAGCA 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481 ATTTTACCATTTCGCTCCATCTTCATTGAAAATGACTTCATCGTAACATCTTTCTGGGCA 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                181 TGGATAAAGCAGATGTTTATTGGGGCATTCCTTATTCCAGCTATGGTCTGTGGCACTGCC
                                                                                                                1150 TICTICATCAATTICATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACA
                                                                                                                                                   241 TICTICATCAACTITATAAGCCATTTATATCATGCCTCTAGAGCCATTCCTTTTGGAACA
                                                                                                                                                                                                                                          1270 ATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                    361 ATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTCCCCTGTCGTGTCAATGCTGTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATTGTTATTATTGTTGCCATGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 910 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCCATCGTTATTATTGTTGCAATGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 482.8; DB 12; Length 570;
Pred. No. 5.8e-64;
0; Mismatches 47; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1450 TATAAGATCTA-TTATGTCTATGGCTTCAT 1478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 23.3%;
Best Local Similarity 91.6%;
Matches 522; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; TYPE: DNA; ORGANISM: Cricetulus griseus
US-11-128-061-4967
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 4967
LENGTH: 570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 임
                                                                                                             ઠે
                                                                                                                                                                      g
                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                       엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

```
Sequence 1309, Application US/11000688

Publication No. US20050287544A1

GENERAL INFORMATION:
APPLICANT: BERUCCI, Francois
APPLICANT: BIRNBAUM, Daniel
TITLE OF INVENTION: GENE EXPRESSION PROFILING OF COLON CANCER WITH DNA ARRAYS
FILE REFERENCE: 1423-R-03
CURRENT PILING DATE: 2004-12-01
PRIOR PILING DATE: 2004-12-01
PRIOR PILING DATE: 2003-12-01
PRIOR PILING DATE: 2003-12-01
SOUTHARE PELLORION NUMBER: US 60/525,987
PRIOR PILING DATE: 2003-12-01
SOUTHARE PELLORION NUMBER: 303-12-01
SEQ ID NO: 1309
LENGTH: 23391
                                                                                                                                                                                                                                                                                                                                                                               1389
                                                                                         1209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           996 Acriaratrorgaagroratrocordaraccoacarrorgagirangearrangaarroco 1055
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1056 regreatrotrotrotratorogaaregracoratearraregraecacacaca 1115
                                                                                                                                                                                      835
                                                                                                                                                                                                                                                                                                                               420
                                                                                                                  241 TTCTTCATCAACTTTATAGCCATTTATTATTATCATGCCTCTAGAGCCATTCCTTTTGGAACA
                                                                                                                                                                                                            1330 CGTCCTATACCGGAGAAAAAAGGTTCATGGAGCCTGCGGGTTATTGTTTGCCTGGGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181 TGGATAAAGCAGATGTTTATTGGGGCATTCCTTATTCCAGCTATGGTCTGTGGCACTGCC
                                                                                            1150 TICTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACA
                                                                                                                                                                                                                                                                                     1270 ATACTTGGCCGAAATCTGTCAGGTCAGCCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCT
                                                                                                                                                                                                                                                                                                                361 ATACTTGGCCGAAAICTGTCAGGTCAGCCCAACTTCCCCTGTCGTGTCAATGCTGTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                            421 Gerechareceagagaaarahegriranggarechgearriranggriegeragea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1390 ATTITACCTITIGGIICAAICTTIATIGAAAIGIATTITCAICTITCACGICTITICIGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481 Artriraccarriregericcarcrirearidaaaneacrirearegraearerrireregeea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 656 AATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          716 TCATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTAATGAGAACATTAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 227.6; DB 12; Length 2391;
Pred. No. 1.5e-25;
0; Mismatches 534; Indels 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE:
CTHER INFORMATION: Description of Artificial sequences:primer FEATURE:
NAME/KEY: misc_feature
LOCATION: (1). 7 (2391)
COTHER INFORMATION: transmembrane 9 superfamily member 2 (TM9SF2)
CTHER INFORMATION: gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1450 TATAAGATCTA-TTATGTCTATGGCTTCAT 1478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       541 racaagacccacrrargrardgcrrrar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity 51.9
Matches 596; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-11-000-688-1309
, 0601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                     <u>염</u>,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            유
                                                                                                                                      셤
                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                            ઠે
                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Malville, Mark W.
APPLICANT: Charlebois, Timothy S.
APPLICANT: Charlebois, Timothy S.
APPLICANT: Charlebois, Timothy S.
APPLICANT: Mounts, William M.
APPLICANT: Houn, Louane E.
APPLICANT: Brown, Eugene L.
APPLICANT: Leonard, Mark W.
APPLICANT: Houn, Eugene L.
APPLICANT: Miler, Christopher P.
TITLE OF INVENTION: MAKING AND USING SAME
TITLE OF INVENTION: MAKING AND USING SAME
TITLE OF INVENTION: MAKING AND USING SAME
FILE REFERENCE: 01997.027700
CURRENT APPLICATION NUMBER: US/11/128,049
CURRENT APPLICATION NUMBER: US/60/570,425
PRIOR APPLICATION NUMBER: US/60/570,425
PRIOR ELING DATE: 2004-05-11
NUMBER OF SEQ ID NOS: 7285
SOFTWARE: Patentin version 3.3
SEQ ID NO 4967
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  F.
                                                                                            1209
                                                                                                                                                                                           1269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1390 ATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCA 1449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GAAGATTTATATACTGAGAGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCT 1029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1090 TGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCC 1149
                                               240
                                                                                                                                                                                                                                                                                       1270 ATACTTGGCCGAAATCTGTCAGGTCAAGCTTTCCTTGTCGTGTCAATGCTGTGCCT 1329
                                                                                                                                                                                                                                                                                                                                                                                    1330 CGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGA 1389
                                                                                                                                           241 TTCTTCATCAACTTTATAGCCATTTATATCATGCCTCTAGAGCCATTCCTTTTGGAACA 300
                                                                                                                                                                                                                 361 ATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTCCCCTGTGGTGTCAATGCTGTGCCT 420
                                                                                                                                                                                                                                                                                                                                                                                                                         421 GGTCCTATCCCAGACAAAATATGGTTTATGGATCCTGCATTTATCGTTCGCTGCTAGCA 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61 GAGGATTTATATACAGAGGGGGATCAATGCTCAGTACCGCCATATTTGTCTATGCTGCT 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATTGTTATTATTGTTGCCATGATA 60
                                            181 TGGATAAAGCAGATGTTTATTGGGGCATTCCTTATTCCAGCTATGGTCTGTGGCACTGCC
                                                                                                                                                                                           1210 ATGGTGGCCGTTTGTTGCATCTGTTTTTTTTTTTTTTTCTTCCTCTAAATCTTGTTGGTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .;
;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 482.8; DB 12; Length 570;
Pred. No. 5.8e-64;
0; Mismatches 47; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1450 TATAAGATCTA-TTATGTCTATGGCTTCAT 1478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            racadeacceaerrarererareserrar 570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 4967, Application US/11128049 Publication No. US20060010513A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 23.3%;
Best Local Similarity 91.6%;
Matches 522; .Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; TYPE: DNA; ORGANISM: Cricetulus griseus
US-11-128-049-4967
                                                                                              1150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           970
                                                                                    ઠે
                                                                                                                                      셤
                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              요
                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                    원
                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

```
Application US/11072512 . US20060029945A1
                                                                                      OTSUKI, TETSUJI
WAKAMATSU, AI
SATO, HIROYUKI
ISHII, SHIZUKO
YAMAMOTO, JUN-ICHI
ISONO, YUUKO
HIO, YUKI
                                                                  SUGIYAMA, TOMOYASU
OTSUKI, TETSUJI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 10.9
Best Local Similarity 51.8
Matches 595; Conservative
                                                                                                                                                                                               OTSUKA, KAORU
NAGAI, KEIICHI
IRIE, RYOTARO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; TYPE: DNA
; ORGANISM: Homo
US-11-072-512-1699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO 1699
LENGTH: 1878
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             926
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1013
                                                                APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       593
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        753
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          813
                                                                                                                                                                     APPLICANT
                                                                                                                                                                                                                     APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                   1012
                                                                                                                                                                                                                                                                    1403
                                                                                                                                                                                                                                                                                                    1132
                                                                                                                                                                                                                                                                                                                                                                    1192
                                                                                                                                                                                                                                                                                                                                                                                                     1523
                                                                                                                                                                                                                                                                                                                                                                                                                                      1252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTAICCTGTGCATTGTGACTGTCTGTGTGTGTGTGTGCACATATTTTCTACTAAATG 1552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2001 CAATTCTGTACTTTGGTTATACCATGATAATGGTTTTGATCTTCTTTTTTTACAGGAA 2060
                                                                                                                                                                                                  TTTTCGCTTGCCTGGGATTTTTGTCACCTGCCAACCGAGGAGCGCTGATGACGTGTGCTG 1343
                                                                                                                                                                                                                                   TATTTGTCTATGCTGCTACGTCTCCAGTGAATGGTTATTTTTGGAGGAAGTCTGTATGCTA 1072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CIAFICCITITIGGGACACTGGTTGCCATATIGGCCCTTTGGTTCTGCATATCTGTGCCTC 1583
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    reacertratresrecaracriresrrraasaasaarecearreaacac---ceagric 1640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1641 GAACCAATCAGATTCCACGTCAGATTCCTGAACAGTCGTTCTACACGAAGCCCTTGCCTG 1700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1701 GTATTATCATGGGAGGGATTTTGCCCTTTGGCTGCATCTTTATACAACTTTTCTTCATTC 1760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCACGICITICIGGGCATATAAGAICTATTATGTCTATGGCTTCATGATGCTGGTGCTGG 1492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAGAGGATTATCATTGGCAATGGCGTTCATTCCTTACGAGTGGCTTTACTGCAGTTTATT 1940
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2061 CAATTGGCTTCTTTGCATGCTTTTTGGTTACCAAAATATACAGTGTGGTGAAGGTTG 2120
                                                                   .164 AAGAATTTGGCTGGAAACTTGTTCATGGTGATATATTCCGTCCTCCAAGAAAAGGGATGC 1223
                                                                                                                                  .224 TGCTATCAGTCTTTCTAGGATCCGGGACACAGATTTTAATTATGACCTTTGTGACTCTAT 1283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGAATAGTATTTGGTCACACAGATGTATTACATGTTTGGCTTCCTATTTCTGGTGTTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTGTTGCAATGATAGAAGATTTATATACTGAGAGGGATCAATGCTCAGTAC----AGCCA
                                                                                                                                                                                                                                                                 1344 resrecrereserecrescrescececrescrescrarerrecrescasarrerara
                                                                                                                                                                                                                                                                                                     GACAAGGAGGAAGGAGATGGATAAAGCAGATGTTTATTTGGGGCATTCCTTATCCCAGCTA
                                                                                                                                                                                                                                                                                                                                                                    TGGTGTGTGCCATCTTCATCATTTCATAGCCATTTATTACCATGCTTCAAGAG
                                                                                                                                                                                                                                                                                                                                                                                                     TTGTATTTGCTGACTTCTTTATAATGAATCTGATCCTCTGGGGAGAAGGATCTTCAGCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTGTCAATGCTGCCTCCTCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         rcarrricerrariaccrerrergasecaacrarrerrrecrarriceaccrarere
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1941 icitaaiciargcagracacractrirircaaaacrgcagarcagggaaggga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTG
                                                                                                   TATTITCCICICIGATIGGITCIGGAIGICAGAIATTIGCIGIGICICICACATATIA
                                                                                                                                                                                                                                                                                                                                   cerrrégaégreagadregaaacaaarerrirarraacarcarrirrerécrégea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITACATGIATICCTITITACTACTATITITICAAAACAAAGAIGIATGGCTTATITCAAA
   1116 AAGATATTGCTAGATATAATCAGATGGACTCTACGGAAGATGCCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                      CCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACTGAAGA 2128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACTAGAGA 1800
                                                                                                                                                                                                  1284
                                                                                                                                                                                                                                   1013
                                                                                                                                                                                                                                                                                                    1073
                                                                                                                                                                                                                                                                                                                                   1404
                                                                                                                                                                                                                                                                                                                                                                                                     1464
                                                                                                                                                                                                                                                                                                                                                                                                                                      1193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1793
                                                                                                 896
                                                                                                                                                                                                                                                                                                                                                                      1133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2121
                                                                                                                                                                   926
                                                                                                                                                                                                 원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                  ò
                                                                a
                                                                                                 8
                                                                                                                                셤
                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
```

RESULT 6 US-11-072-512-1699

```
1012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        981 irricecrneceredearririercaccreccaacceaececreareacererere 1040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TATITICICIATICCIACCIACCICCAGIGAAIGCITATITICGAGGAAGICICIAIGCIA 1072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1073 GACAAGGAGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTA 1132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1101 CCTTTGGAGGTGAGAAGGAAACAAATGTTTTATTAACATCATTTCTTTGTCCTGGGA 1160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        752
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      921 recrarcaererreraseareceseacacaearrirraarrareaecrirereaererar 980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    861 AAGAATTTGGCTGGAAACTTGTTCATGGTGATATTTTCCGTCCTCCAAGAAAAGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTGTTGCAATGATAGAAGATTTATATACTGAGAGGGATCAATGCTCAGTAC---AGCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       recrerecerecrecrescacececerecasecraristriscrescaserreraran
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCATGATGGTGATCTTCTTGGTGGCTTAGTTTCAATGATTTAATGAGAACATTAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          regreatrererrareregaaregrageratearrarerraceakacrecaca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       776 AAGATTATGCTCGGTACAGTAAAGAGGAAGAATGGATGATATGGATAGAGACCTAGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            836 ATGAATATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCACTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TATTTTCCTCTCTCATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   656 AATAICTIGAICCGICCTITITICAACAICGGAIICAIIGGITITICAATITICAACICCI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 1878;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               aagatatrigcragatataarcagatggacrctacggaagargcccag--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 226; DB 9; Length 18
Pred. No. 2.5e-25;
0; Mismatches 535; Indels
                                                                      CANT: OTSUTA, MOTOYUKI
CANT: NAGAHARI, KENJI
CANT: MASUHO, YASUHIKO
OF INVENTION: Novel full length cDNA
                                                                                                                                                                                            FILE REPERENCE: 084335-0191
CURRENT APPLICATION NUMBER: US/11/072,512
CURRENT FILING DATE: 2005-03-07
                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US 60/350,978
                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: US 60, PRIOR FILING DATE: 2002-01-25 PRIOR APPLICATION NUMBER: UP 200 PRIOR FILING DATE: 2001-11-05 NUMBER OF SEQ ID NOS: 4096 SOFTWARE: Patentin Ver. 2.1
                           SEKI, NAOHIKO
YOSHIKAWA, TSUTOMU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                51.88;
TAMECHIKA, ICHIRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
```

```
RESULT 8
US-11-240-769-49
US-11-240-769-50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1150
                                                                                                                                           셤
                                                                                                                                                                                    Š
                                                                                                                                                                                                                     뭐
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ଚ
                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                    1220
                                                                         1252
                                                                                                          1280
                                                                                                                                               1312
                                                                                                                                                                                                                                                                                                 1432
                                                                                                                                                                                                                                                                                                                                                                        1492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1732
                                                                                                                                                                                    1337
                                                                                                                                                                                                                       GIGICAAIGCTGTGCTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTA 1372
                                                                                                                                                                                                                                                                                                                                    1398 GIATITATCATGGGGGGTTTTGCCCTTTGGCTGCATCTTTATACAACTTTTCTTCATTC 1457
                                                                                                                                                                                                                                                                                                                                                                                                         1458 igaanagiairriggreaccagaigrariacargirriggericciarricriggrena 1517
                                                                                                                                                                                                                                                                                                                                                                                                                                                1552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1518 TCATTTTGGTTATTACCTGTTCTGAAGCAACTATACTTCTTTGCTATTTCCACCTATGTG 1577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATG 1612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAGATGTATGGCTTATTTCAAA 1672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTG 1792
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1758 CAATTGGCTTCTTTGTATGCTTTTGGTTTGTTACCAAATATACAGTGTGGTGAAGGTTG 1817
                                                                                                                                                                                                                                                            1338 GAACCAATCAGATTCCACGTCAGATTCCTGAACAGTCGTTCTACACGAAGCCCTTGCCTG 1397
                         CATCATTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAG
   TGGTGTGTGGCACTGCCTTCTTCATCATTTCATAGCCATTTATTACCATGCTTCAAGAG
                                                                         CTATTCCTTTTGGGGACACTGGTTGCCATATTGGCCCTTTGGTTCTGCATATCTGTGCCTC
                                                                                                                                             TAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCCAACTTTCCTTGTC
                                                                                                                                                                                                                                                                                                 1373 TTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCT
                                                                                                                                                                                                                                                                                                                                                                          TCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                TTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1578 cagagaarrarcarrescaarescerrearrecrraceasrescrrracrecasrrarr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     retraateratacaeracraerretritreaaaacreeagreacegaacageaageg
                                                                                                                                                                                  reacerriariregiecaracrriegrriraagaagaareccarreaacac---ccaerre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NO. US2006003609A1
Sequence 50, Application US/11240769
FUBLication No. US2006003609A1
GENERAL INFORMATION:
APPLICANT: Soppet et al.
ITLE OF INVENTION: 33 Human Secreted Proteins
FILE REFERENCE: PZ037PbC2
CURRENT APPLICATION NUMBER: US/11/240,769
CURRENT APPLICATION NUMBER: 09/997,131
PRIOR PILING DATE: 2000-10-30
PRIOR APPLICATION NUMBER: 09/997,131
PRIOR FILING DATE: 2000-07-28
PRIOR APPLICATION NUMBER: PCT/US00/03062
PRIOR APPLICATION NUMBER: C0/119,468
PRIOR APPLICATION NUMBER: 60/119,468
PRIOR APPLICATION NUMBER: 60/119,468
PRIOR APPLICATION NUMBER: 60/119,468
PRIOR APPLICATION NUMBER: 1999-02-10
NUMBER OF SEC ID NOS: 173
SOFTWARE: PatentIn Ver. 2.0
SEC ID NO 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1793 ACTAGAGA 1800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACTGAAGA 1825
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1733
 1133
                                                                         1193
                                                                                                          1221
                                                                                                                                                 1253
                                                                                                                                                                                    1281
                                                                                                                                                                                                                         1313
                                                                                                                                                                                                                                                                                                                                                                          1433
                                                                                                                                                                                                                                                                                                                                                                                                                                                    1493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1818
                                                                                                        셤
                                                                                                                                               ò
                                                                       ò
                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
```

```
1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1630 TACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGA 1689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              905
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              972
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        129 ATGCTGTCGCCCTCCAGGCGGGGGCTCTCATGACCAGGCCTGCTTCCTTTCATGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    309 TICGTATTGAATTGCTTCATTTGGGGAAAGCACTCATCAGGAGGGGGGGCCCTTTCCCACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              546 ATCTTGCCCTTCGGCGCCATGTTCATCGAGCTCTTCTTCATCAGTGCTATCTGGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     913 GGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            973 GATTTATATACTGAGA---GGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            189 Areacecrerrreccedarrrrcrecreccercreraccecarrrana Addecearces
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   249 regalada a de la contra del la contra de la contra de la contra del la co
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1210 ATGGTGGCCGTTTGTTGCATCTGTTTTTTTTTTTTTTTCTTCCTCTAAATCTTGGTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1270 ATACTIGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1390 ATTITACCITITGGITCAAICTITATIGAAAIGTATITCAICTICACGICTITCIGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           606 AATCAGTICTATIACCICITIGGCTICCIGITCCTTGTITICATCATCCTGGTGGTATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1570 CAATGGACAAGTTTTCTCTCTGCTGCATCTGCAATCTATGTTTACATGTATTCCTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           726 regriciakaanirircinagrericeksesseriridearichkeirerssirinahseene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              846 TACACGGCCCTCATGGTCTTGTCCTTCTGGCTAACGGGTACCATCGGCTTCTATGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      69 escricaescarricascriericreraricarcercarcercarerriterasccarecriese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1030 ACGICICCAGIGAAIGGIIAITIIGGAGGAAGICIGIAIGCIAGACAAGGAGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1090 TGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCCAGCTATGGTGTGTGGCACTGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TICTICATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 369 Aricercercreterereres errececaricres errecerares errecerares erreceras
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                428 chachroschrocgaaagcag--ccararsacaaccchgrocgcaccaacagarrocc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1330 CGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      486 ceccacarceccasecasecaserseracareaaccarricasecarecreareserase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1450 TATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGCATTGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  666 refreacaaarcaecarcercarecraricarecrecrecrererecaeacaearraceeree
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1690 TATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGA
                                                                                                                                                                                                                                                                                                                                                                          9 ccdendicacdecacerericadecececearaacecearaarecreacrecreere
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1510 ACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGG
                                                                                                                                                                                                                                                                              CAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         786 TITIATITICGITAACAAGCIGGACAICGIGGAGITCAICCCCTCTCTCTCTACITIGGC
                                                                                                                                       Gaps
                                                                                                                                       9
       Length 1094;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1750 ACAAGTGCCTTTGTCCGAAAATCTATACTAATGTGAAAATTGACT 1795
Score 190.4; DB 9; Length
Pred. No. 5.4e-20;
0; Mismatches 446; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 52.2%;
Matches 494; Conservative
```

```
GGCTGGGGATCTTGCC-TTCGGCGCCATGTTCATCGAGCTCTTCTTCATCATGTTAT 1300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Criscagaaarcagrictarraccricrrrescrirecristrecrrerrerrescratecriss 1360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1361 GGTATCCTGTTCACAAATCAGCATCGTCATGGTGTACTTCCAGCTGTGTGCAGAGGATTA 1420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cciccicidadada de contra contr
1182 GATTCCCCGGCAGATCCCCGAGCGGTACATGAACCGATTTGTGGGCATCCTCAT 1241
                                                                                                                                                                                             GGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTT 1442
                                                                                                                                                                                                                                                                                                                                                                                                                                       CTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTG 1502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CATTGTGACTGTCTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTA 1562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCAACTGCAATCTATGTTTACATGTA 1622
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGTGATCTTCTTGGTGGCCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTA 782
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        580 éércrichicciercaésrarccieaecaréariarcarrescaccercesaagaacar 639
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATA 842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ---- AGACACCATGCAGCAGTC 687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               520 TTACCTGACCATGAGGGCGTCCAGATCCACTGGTTTTCTATCATTAACTCGTTGTTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   663 TGATCCGTCCTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 1816;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cch 8.2%; Score 169.4; DB 9; al Similarity 52.0%; Pred. No. 8e-17; 514; Conservative 7; Mismatches 448;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATI: Soppet et al.
TITLE OF INVENTION: 33 Human Secreted Proteins
FILE REFRENCE: PC937PIC2
CURRENT APPLICATION NUMBER: US/11/240,769
CURRENT FILING DATE: 2005-10-03
FRICA APPLICATION NUMBER: 09/628,508
FRICA APPLICATION NUMBER: 09/628,508
FRICA FILING DATE: 2000-07-28
FRICA FILING DATE: 2000-07-28
FRICA PELICATION NUMBER: PCT/USO0/03062
FRICA PRICA FILING DATE: 2000-07-08
FRICA PELICATION NUMBER: 60/119,468
FRICA APPLICATION NUMBER: 60/119,468
FRICA APPLICATION NUMBER: 60/119,468
FRICA APPLICATION NUMBER: 60/119,468
FRICA APPLICATION NUMBER: 09/620
FRICA PRICA FILING DATE: 1999-02-10
NUMBER OF SEQ ID NOS: 173
SOFTWARE: PATENTIN VET: 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     640 reccaacracamcaaecaaccarcarraa---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TICCITITACTACTATITITICAA 1646
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      recentritarirectiaacaa 1504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (504)
OTHER INFORMATION: n equals a,t,g, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               n equals a,t,g, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 21, Application US/11240769 Publication No. US20060036089A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 514; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; LOCATION: (1405)
; OTHER INFORMATION:
US-11-240-769-21
                                                                                                                                                                                                                                                                                                                     1242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1421
                                                                                                                                                                                             1383
                                                                                                                                                                                                                                                                                                                                                                                                                                             1443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:
                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    966 GATAGAAGATTTATATACTGAGA---GGGGATCAATGCTCAGTACAGCCATATTTGTCTA 1022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1023 TGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGG 1082
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .083 AAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGG 1142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1005 CATCTGCTTCGTATTGAATTGCTTCATTTGGGGAAAGCACTCATCAGGAGCGGTGCCCTT 1064
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1065 receaecardedecercrecereredarere-erressarerecerecerecererer 1123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                945 ccarcégrégasquas de contra de contra de contra de contra de contra de 1004 de 1004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1143 CACTGCCTTCTTCATCATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTT 1202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGC 1322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1124 resecraciacircescrreceaascas-cearareacaaccrereceaccaarca 1181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1323 TGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTGCCT 1382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 905
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        537 CTGACCATGAGTGACGTCCAGATCCACTGGTTTTCTATCATTAACTCCGTTGTTGTGGTC 596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 846
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          906 TCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAAT 965
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            884
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      885 CANGITCAIGGGGGTGITITGGCGGAITITICIGCTGGCCGICTGTACCGCACTITAAAAGG 944
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       597 TTCTTCCTGTCAGGTATCCTGAGCATGATTATCATTCGGACCCTCCGGAAGGACATTGCC 656
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  764
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            657 AACTÁCAACAÁGGÁGGÁTGÁCATTGÁ------AGÁCACCATGGÁGGÁGTCTGGG 704
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 787 CGGTACAGTAAAGAGGAAGAAGAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      765 cergerassericassearreascristrergransarcerearcerearerranguagecar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGGAAACAGGTGCATGGAGATGTATTTA-GACCATCAAGTCACCCACTGATATTTTCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      redalarriderecacidedescricires de cococeca en acceptado en concarda en concarda
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            825 GCTTGGGATGCTGTCGCCCTCCAGCCGGGGAGCTCTCATGACCACAGCCTGCTTCCTCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 1821;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             667 CCGICCIITITICAACAICGGAITCAITGGITITICAAITITICAACICC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 172; DB 9; Length 18 Pred. No. 3.3e-17; 0; Mismatches 445; Indels
                                                                                                                                                                          APPLICANT: Soppet et al.
TITLE OF INVENTION: 33 Human Secreted Proteins
FILE REFRENCE: PSO37PLC2
CURRENT APPLICATION NUMBER: US/11/240,769
CURRENT PILING DATE: 2005-10-03
PRIOR FILING DATE: 2001-11-30
PRIOR FILING DATE: 2001-11-30
PRIOR FILING DATE: 2000-07-28
PRIOR FILING DATE: 2000-07-28
PRIOR FILING DATE: 2000-07-28
PRIOR FILING DATE: 2000-02-08
PRIOR FILING DATE: 1909-02-08
PRIOR FILING DATE: 2000-02-08
PRIOR FILING DATE: 2000-02-08
PRIOR FILING DATE: 2000-02-08
PRIOR FILING DATE: 2000-02-08
      Sequence 49, Application US/11240769
Publication No. US20060036089A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8.3%;
ilarity 52.7%;
Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 173
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 49
LENGTH: 1821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; ORGANISM: Homo sapiens
US-11-240-769-49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
Matches 519; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  705
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 847
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ġ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
```

```
6.7%;
SOFTWARE: PatentIn version 3.2
SEQ ID NO 313
LENGTH: 569
                                                                                       ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 86.0
Matches 153; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; ORGANISM: Homo sapiens
US-09-925-065A-724812
                                                                                                                                                                                                                                                                                                                                                                                              1911 TTTTTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-925-065A-724812/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 724812
LENGTH: 1251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
                                                                      TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 유
                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: HOULGATTE, Remi APPLICANT: BIRNBAUM, Daniel TITLE OF INVENTION: GENE EXPRESSION PROPILLING OF COLON CANCER WITH DNA ARRAYS FILE REFERENCE: 1423-R-03 CURRENT APPLICATION NUMBER: US/11/000,688 CURRENT APPLICATION NUMBER: US/11/000,688 PRIOR PRILING DATE: 2004-12-01 PRIOR PRILING DATE: 2003-12-01 NUMBER OF SEQ ID NOS: 1596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1438
                                                                                                                                                                                                                                                                                                                                                                                              1138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1047
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1404
                                                                                                                                                                                                           CAATGATAGAAGATTTATATATACTGAGA---GGGGATCAATGCTCAGTACAGCCATATTTG 1018
                                                                                                                                                                                                                                                                                                    TCTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAG 1078
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GIGGCACTGCCTTCTTCATCATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTC 1198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ITGITGGTACAATACTIGGCCGAAATCTGTCAGGTCAGCCCAACTITCCTTGTCGTGTCA 1318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TACTTGGGCTACTACTTCGGCTTCCGAAAGCAG--CCATATGACAACCCTGTGCGCACCA 1164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATGCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTT 1378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1165 Accagatrocociógicagarococión de actividades a desentenciones de 1224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1225 TCATGGCTGGGGATCTTGCCCTTCGGCGCCATGTTCATCGAGCTCTTCTTCATCTTCAGTG 1284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTITCTGGGCATATAAGAICTATTAIGTCTATGGCTTCATGATGCTGGTGCTGGTTAICC 1498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTATCTGGGAGAATCAGTTCTATTACCTCTTTGGCTTCCTGKTCCTTGGTTTCATCATCC 1344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAG 1558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -ATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTAC 1617
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1405 NATTACCGYTGGTGGTGGTGAAATTYCCTAGTCTCCGGGGGCTCTGCATTCWACGTCCTG 1464
                                                                                                                                                                                                                                                                                                                                                                                                                                            987
                                                                      747
                                                                                                                    196
                                                                                                                                                                                                                                                         CCATGCTTGGGATGCTGTCGCCCTCCAGCCGGGGAGCTCTCATGACCACAGGCCTGCTTCC 867
                                                                                                                                                                                                                                                                                                                                 748 GCTCCCTGCTGGGCTCAGGCATTCAGCTGTTCTGTATGATCCTCATCGTCATCTTTGTAG 807
                          TGGATGGAAACAGGTGCATGGAGATGTATTTA-GACCATCAAGTCACCCACTGATATTTT
                                                              688 regeragaagrregredaceeceacricricaeececececearacerea
                                                                                                                                                                                                                                                                                                                                                                                              .079 GAGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                            928 AAGGCCATCGGTGGAAGAAGGAGCCTTCTGTACGGCAACTCTGTACCCTGGTGTGGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     rrescarcrecircerarreaarrecrrcarrressaaaascacarcarcascassisce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cerrrreccaccanegrescrerecereredarens-erressarenecerecerest
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTAATTGAAATGTATTTCATCTTCACGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGGTGGKATCCTGKTCACAAATCAGCATCGTCATGGTGKACTTCCARCTGTGTGCAGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1618 ATGTATTCCTTTTACTACTATTTTTCAA 1646
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GITTATGCCATCITIWATITCGTTAACAA 1493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 313, Application US/11000688 Publication No. US20050287544A1 GENERAL INFORMATION:
APPLICANT: BERTUCCI, Francois
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 10
US-11-000-688-313/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1285
                                                                                                                 902
                                                                                                                                                                                                           962
                                                                                                                                                                                                                                                         808
                                                                                                                                                                                                                                                                                                       1019
                                                                                                                                                                                                                                                                                                                                                     868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1259
                                                                                                                 δ
                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ç
                                                                                                                                                                                                                                                                                                                                                                                              8
```

```
2030
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1098 GCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGGGCACTGCCTTCTTCAT 1157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               690 gcagangrirarnegescarrccriarcccascriaresrererescacrecrerrcricar 631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAAITICATAGCCATITATTACCATGCTTCAAGACCATTCCTTTTGGAACAAIGGTG 1215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     569 Tririririririririririririririracaaraaggcaarrrarraacccagcarggring
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1971 TICTAATGCTTCTTGTTGGCAGCTGCCACCTGTCCGGCGATTCTGTCCAGATCTTTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               509 richanderrengingeadereceaeriereegaarrengieda soo increased
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: Identification and Mapping of Single
TITLE OF INVENTION: Identification and Mapping of Single
TITLE OF INVENTION: Identification and Mapping of Single
TITLE OF INVENTION: Identification in the Human Genome
FILE REPERENCE: 10887.135
CURRENT APPLICATION NUMBER: US/09/925,065A
CURRENT FILING DATE: 2001-08-08
FRIOR FILING DATE: 2000-10-24
FRIOR FILING DATE: 2000-11-20
FRIOR FILING DATE: 2000-11-30
FRIOR FILING DATE: 2000-11-30
FRIOR FILING DATE: 2000-11-30
FRIOR FILING DATE: 2001-11-6
FRIOR FILING DATE: 2001-11-6
FRIOR FILING DATE: 2001-11-6
FRIOR FILING DATE: 2001-01-16
FRIOR FILING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITITITITITACGAATGAGGCAATITATTAACCCAGCATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
OTHER INFORMATION: Description of Artificial sequences:primer
                                                                                                                                                                                                                                                                                                                                                      Length 569;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 1251;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                               FEATURE:
NAME/KEY: misc feature
LOCATION: (1)...(569)
COTHER INFORMATION: ribosomal protein s19(RPS19) gene.
US-11-000-688-313
                                                                                                                                                                                                                                                                                                                                                Query Match 7.0%; Score 145; DB 12; Best Local Similarity 100.0%; Pred. No. 3.4e-13; Matches 145; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; DB 6;
4.1e-12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 138;
Pred. No. 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2031 CCCTGAGGTGTCAGTTTGCGGCCGC 2055
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 724812, Application US/09925065A Publication No. US20040181048A1 GENERAL INFORMATION:
```

ω

```
1459 rirircegierciarriccarrercerrirecregircarararreceracaaaadreraac 1518
                                                                                                                                                                                                                                                                                                                          TACTTAAGGACAACACAGGCAACCCTTATTGCAGGCATTTTCTCTTTTTGGTTCAATAGCC 1638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGT:---TGGGATGTTCATCTTCATCCATGCAATATTATTTACAAATTCAAA 1875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1654 ATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCC 1713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ciceciceariceicacaarcaracierarericeararcarrararararererere 1935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATC 1773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           rgrigogrigicacaggggcgarcgcgriftrgragagcargararicarragaagarr 1995
TITITIGITATICITICCICIAAAICITGITGGIACAAIACITGGCCGAAAICIGICAGGI 1293
                                                                                                                                                                                                                                                                                                                                                                                                                                                             GirdaAriariatricairiaciccaGiriaricerrcaAcaacaacaacairiricaariciricer 1698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              acerarcarrarerracia a a recorrere carecia e de contrar 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAG 1653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             817 GATAAAGATAATGACGTGTATTTTACCTACTCCGTCAAATTCATTGCTTCTGATACAGTT 876
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITGAAGAICGAITIGACAAATAICIIGAICCGICCIITITITCAACAICGGAITCAITGG 696
                                                                                                                                   1294 CAGCCCAACTITCCTIGICGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITCIACICITITICATITITICITICCICACITITAACAACCICATIGGIAACIATITICATI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTTCCAAATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAA
                                                                                                                                                                                                 TGGGATGAACATCCAACAAACAAACCAGATTGCTCGACAAAGTCCATTTCAGCCTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS FILE REFERENCE: 030685-043
CURRENT APPLICATION NUMBER: US/10/932,182A
CURRENT FILING DATE: 2004-09-02
NUMBER OF SEQ ID NOS: 197023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 2019;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                               TTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 124.4; DB 7;
Pred. No. 4.7e-10;
0; Mismatches 631;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TATACTAATGTGAAAATTGACT 1795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ratrctagacitaaaciccact 2017
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 478, Application US/10932182A Publication No. US20060046253A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; TYPE: DNA; Caccharomyces pastorianus US-10-932-182A-478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KODAMA, YUKIKO
FUJIMURA, TOMOKO
ASHIKARI, TOSHIHIKO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: NAKAO, YOSHIHIRO
APPLICANT: NAKAMURA, NORIHISA
APPLICANT: KODAMA, YUKIKO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: Patentin version 3.3 SEQ ID NO 478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 6.0%;
Best Local Similarity 46.4%;
Matches 567; Conservative
                                                                                                                                                                                                                                                                                                                                 1579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                1639
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1759
   1234
                                                                                                                                                                                                 1519
                                                                                                                                                                                                                                                                  1354
                                                                                                                                                                                                                                                                                                                                                                                                  1414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
APPLICANT:
                                                                                                                                                                                      요
                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ģ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1039 CTAGATAATGAATTTCATGAGGATACTGGTTGGAAATTAGGTCATGGTGATGTATTTAGA 1098
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1159 ATGATCATATGTAGCATTTTCTTTGCTGCATTAGGCCTTGGTATCACCAGCTTCAAGAGGC 1218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rcrrideceaecerearerireririaecearrarresecrridaecircriataci 1278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1279 TCCATGGGrererahaserrrrrccargaacerrarigaaggeraarrigaraarraca 1338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1114 GCATICCTIAICCCAGCTAIGGIGIGGCACTGCCTICTICAICAATTICAIAGCCATT 1173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1339 ccaarccrecrecresessaarrrrrearraaragrassarisakerrerreara 1398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1174 TATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATCTGT 1233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ------CTTCAC 1038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1099 acarcarcraarcaregrerrarcrerecresegricaegrarcaarrarrarracre 1158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1054 GGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAGATGGATAAAGCAGATGTTTATTGGG 1113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     876
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   969
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTAATGAGAACATTAAGAAAAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGAT 816
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  876
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      877 CCATCAAGTCACCCACTGATATTTTCCTCTGTGATTGGTTCTGGATGTCAGATATTTGCT 936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTGTCTCT----CATCGTTATTATTGTTGCAATGATGAAGATTTATATATACTGAGAGGGGA 993
   CAATTICATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTG 573
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GTTCCAAATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  817 GATAAAGATAATGACGTGTATTTTACCTACTCCGTCAAATTCATTGCTTCTGATACAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 877 TGGGCTACAAGATGGGACAAGTATCTACAT-----ATTTATGATCCGCAAATTCAATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTTTCAATTTTCAACTCCTTCATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  817 ATGGATAGAGACCTAGGAGATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITGAAGATCGATTTGACAAATATCITGATCCGTCCTTTTTTCAACATCGGATTCATTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCAATGCTCAGTACAGCCATATTTGTCTATGCTGCTACGTCTCCAGTGAATGGTTATTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Triricritaatraatricriccarcarcatrirraciarcarcrigiginaricaricr
                                                                                                                                                                                                                                                                                                                      APPLICANT: KODAMA, YUKIKO
APPLICANT: WODAMA, YUKIKO
APPLICANT: PUJIMURA, TOMOKO
APPLICANT: ASHINA, TOMOKO
TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
FILE REFERENCE: 030685-043
CURRENT APPLICATION WOMBER: US/10/932,182A
CURRENT PILLING DATE: 2004-09-02
NUMBER OF SEQ ID NOS: 197023
SOFTWARE: Patentin version 3.3
SEQ ID NO 478
LENGTH: 2019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 124.4; DB 7; Length 2019;
Pred. No. 4.7e-10;
0; Mismatches 631; Indels 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Aractrosescreteaasastratroseccertarasceaa-
                                                                                                                                                              Sequence 478, Application US/10932182A Publication No. US20060046253A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GRGANISM: Saccharomyces pastorianus US-10-932-182A-478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6.0%;
                                                                                                                                                                                                                                                        APPLICANT: NAKAO, YOSHIHIRO
APPLICANT: NAKAMURA, NORIHISA
APPLICANT: KODAMA, YUKIKO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 567; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   637
   a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
```

Gaps

ઠે

음 상 음

유

ઠે

셤

ò

ઠે

```
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1413
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1053
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1353
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1533
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1593
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rerreceircicacaeeeeeeerriceerricaeraeeareararrearraeaaaeair 1995
                                                                                                                                                                                                                                                                                                                                       991 ATACTICGGGCIGIGAAGAGIGATTIGCCCGITATAACGAA------CITCAC 1038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTAGATAATGAATTTCATGAGGATACTGGTTGGAAATTAGGTCATGGTGATGTATTAGA 1098
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1099 ACATCATCTAAATCAATGGTGTTATCTGTGCTCGTGGGTTCAGGTATTCAATTATTTCTG 1158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1054 GGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAGATGGATAAAGCAGATGTTTATTGGG 1113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rccargggrgrcraraagrrrrccarggaccrrarrggaaggcraarrrgaraarraca 1338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GCATTCCTTATCCCAGCTATGGTGTGTGGCCACTGCCTTCTTCATCAATTTCATAGCCATT 1173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rcjęceckerccicecitetaricccaecaadakecterititicaraarcticcrates 1458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                riricegierciariccarierceriricriegircarariricciacaaaagieraac 1518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TACTTAAGGACAACACAGGAACCCTTATTGCAGGCATTTTTCTCTTTTTGGTTCAATAGCC 1638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         rrcracicrirrcarirricriscrisacriraacaaccrcarrssradiatrirrcarr 1758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAG 1653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GGTT---TGGGATGTTCAGTTTATATGTTCATCCATGCAATATTATTTACAAATTCAAA 1875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1654 ATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCC 1713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTCGGTGGATTCGTCACAATCATACTGTATGTTGGATATTCATTTATGATATCTGTGCTA 1935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATC 1773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 993
                                                                                                                                                                                                                                                         816
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         936
                                                                                      756
                                                                                                                                                                        990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTCATGATGCTGGTTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGC
TGGGCTACAAGATGGGACAAGTATCTACAT ----ATTTATGATCCGCAAATTCAATGG
                                                                                      TITICAATITICAACTCCTTCATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATT
                                                                                                                                                                                                                                                         TTAATGAGAACATTAAGAAAAGATTATGCTCGGTACAGTAAAGAGGAAGAATGGATGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCATCAAGTCACCCACTGATATTTTCCTCTGATTGGTTCTGGATGTCAGATATTTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GTGTCTCT----CATCGTTATTGTTGCAATGATAGAAGATTTATATACTGAGAGGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        arcaratargrado intricritic recentar a de la constanta de la co
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCAATGCTCAGTACAGCCATATTTGTCTATGCTGCTACGTCTCCAGTGAATGGTTATTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                retringecaaecerearerritationritaecaarrarregecritataecritataer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ccarrectectrecresesartririctartaatastaseaatsaactretratta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCGCGTTTGTTGCATCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITITITICITATICCICIAAAICIIGIIGGIACAAIACIIGGCCGAAAICIGICAGGI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rescarcaacaacaacaaacaaacaaacrascaaarrecresaaaarrecarrresecerres
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTCATGGAGCCTGCGGTTATTGTTTGCCTGGGAGTTTTACCTTTTGGTTCAATCTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cricaarrararrachtrachtrarecritarieerrcaacaacarrrrrerarerrecr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1534 ACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                 ATGGATAGAGACCTAGGAGATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGA
                                                                                                                                                                   rirircrrraairaarrircrccarcarcarrirarrarcarcrererererererer
                                                                                                                                                                                                                                                         757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1294
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1639
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1936
                                                                                      697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   994
```

8

ð

6 6 6 6 6 6 6 6 6 6 6 6

```
944 TCATCGTTATTATTGTTGCAATGATAGAAGATTTATATACTGAGAGGGATCAATGCTCA 1003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1172 CTIGTAGTATTTTTTTTTTGCTGCATTAGGTTTCCTATCACCTAGAGGCTCGTTAG 1231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1232 ccacestraterraratecerratricearireriestratracacarceares 1291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1181 ATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTG 1240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1292 GTATCTÁCAAATTTTTCGATGGTCCATACTGGAAGGCAAATGTGATCATGACCCCCGCTTT 1351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          944 iaainaachrchennigeneingigenariareareceneinareaecreaenachei 1003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 823
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          890 ccacargecacaatarrraca----cerrrargarccrrcrarccaargerrcrccr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GAACATTAAGAAAAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1004 ecectricaaaagrearircecrcegracaaceagreaaaccraeaceareacea--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1062 ------AGAGGTIGGGAAATTAAACCACGGTGATGTTTTCCGTTCACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           884 GTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1112 GCCAGTCACTAATGCTCTCCATTTTGGTTGGTTCAGGTGTTCAATTATTTTGATGGTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1004 GTACAGCCATATTTGTCTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAA---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTCTGTATGCTAGACAAGGAAGAAGAGATAAAAGCAGATGTTTATTGGGGCATTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1352 TAGÍTICCTGGAGCIATICTACTAGIAATCATIGCACTGAACTÍTITICTITAATGITTÍGICC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       584 ATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              644 ATCGATTTGACAAATATCTTGATCCGTCCTTTTTTTCAACATCGGATTCATTGGTTTTCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        824 GAGACCTAGGAGATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       830 ATAATGAAGITIATITITACCIATICGGITAAAITICGAGGAATCCCCCACTICAIGGGCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITICAACTCCTTCATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1121 TTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                 APPLICANT: NAKAO, YOSHIHIRO
APPLICANT: NAKAMURA, NORIHISA
APPLICANT: NORDAM, YUKIKO
APPLICANT: FUJIMURA, TOKNO
APPLICANT: FUJIMURA, TOKNIHIKO
APPLICANT: ASHIKARI, TOSHIHIKO
APPLICANT: ASHIKARI, TOSHIHIKO
TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
FILE REPERENCE: 030685-043
CURRENT APPLICATION NUMBER: US/10/932,182A
CURRENT PILING DATE: 2004-09-02
NUMBER OF SEQ ID NOS: 197023
SOFTWARE: PALENTIN VERSION 3.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 2025;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 5.8%; Score 120; DB 7; L
Best Local Similarity 46.2%; Pred. No. 2.1e-09;
Matches 562; Conservative 0; Mismatches 630;
                                                                                                                                                                                                                            Sequence 4690, Application US/10932182A Publication No. US20060046253A1 GENERAL INFORMATION:
                                          1996 TATTCTAGAGTTAAAGTCGAGT 2017
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; TYPE: DNA; CACCharomyces pastorianus US-10-932-182A-4690
TATACTAATGTGAAAATTGACT
                                                                                                                                                               RESULT 14
US-10-932-182A-4690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 4690
LENGTH: 2025
1774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 704
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        764
```

```
crreraciaiririririderecarragerrrecrareceraecreragagerregriae 1231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1004 GTACAGCCATATTTGTCTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAA--- 1060
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1232 CCACGGTTATGTTCATTCTATATGCCTTATTTGGATTTGTTGGTTCTTACACATCCATGG 1291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTCTGTATGCTAGACAAGGAAGGAGATGTATAAAGCAGATGTTTATTGGGGCATTCC 1120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTATCTACAAATTTTTCCATGGTCCATACTGGAAGGCAAATGTGATCATGACCCCGCTTT 1351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1352 TAGTTÜCTGGAGCTATTCTACTAGTAATCATTGCACTGAACTTTTTTCTTAATGTTTGTÜC 1411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCTTCTTTTTTTG 1240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTCTTCTGGTGTTATTCCAGCAAGTACTTTGTTTTTTATGGTATTCTTATGGTTTTTAT 1471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1241 TTATTCTTCCTCTAAATCTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCA 1300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1301 ACTITICCITGICGIGICAAIGCIGIGCCICGICCIAIAACGAAAAAAIGGITCAIGG 1360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1361 AGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTTGGTTCAATCTTTATTGAAA 1420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1772 AFTCGFFARGCCFAGAAACFGGAAGFGGCAAFGGAGGGGAFFFAFC---GFCGGAGGFG 1828
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1601 CTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAGAAGATGTATG 1660
                                                                                                                                                                                                                                          1004 GCGCTTTGAAAAGTGATTTCGCTCGGTACAACGAGTTAAACCTAGACGATGACTTCCA-- 1061
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1472 rerecarrecerrareaarrecreerrererreceaecaecaeaagagarerereesare 1531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       irrirrcariccirriarridacgrigacaaccrccircgricacrgraargarcacriarc 1771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1661 GCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGA 1720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GAACATTAAGAAAAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATA 823
                                                                                                                                                                                                                                                                                                                                                                     884 GICACCCACIGATATITICCICTCTCATIGGITCTGGAIGICAGAIATITGCTGTGTCTC 943
                             644 ATCGATTTGACAAATATCTTGATCCGTCCTTTTTTTCAACATCGGATTCATTGGTTTTCAA
                                                      990 CCAGAIGGGACAAATATITACA-----CGTTTATGATCCTTCTATCCAAGGTTCTCCT
                                                                                                              TTTTCAACTCCTTCATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTAATGA
                                                                                                                                                                                                                                                                                                                                                                                                              1112 écchercherariscretécharitrissirésirésirésirésirénaritritrisarissiren
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAACTCTACCGGCTACTTTAATTGCTGGTATTTTCCCCTTCGGTTCTATTGCCGTTGAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1421 IGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1532 AGCATCCAACGAAACGAACCAAATTGCAAGACAAATCCCCTTCCAACCTTGGTATCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGCTGGTGCTTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TICTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAA
                                                                                                                                                                                                                                                                                  824 GAGACCTAGGAGATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1829 reserrececererargrarrarecarrecarrerarreacraharrransirasers
                                                                                                                                                                                                                                                                                                                             1062
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1652
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1712
                                                                                                                                                                                                 764
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1541
                                                                                                            704
                                                                                                ठे
                                                                                                                                                요
                                                                                                                                                                                                                            g
                                                               셤
                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ሯ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Я
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    용
                                                                                                                                                         1360
TTATTCTTCCTCTAAATCTTGCTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCA 1300
                                                                                                                                                                                 AGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAA 1420
                                                                                                                                                                                                                                                                                                                             TGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGA 1480
                                                                                                                                                                                                                                                                                                                                                                                                                TGCTGGTGCTGGTTATCCTGTGCATTGTGACTGTCTGTGACTATTGTGTGCACATATT 1540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1829 TCGGTTGCGCCCTGTATGTATTTATCCATTCCATTCTATTCACTAAATTTAAGTTAGGTG 1888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1721 TAATGTGGGAGGGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTA 1780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TAGTAACTGGATCAATCGGTTTCATTAGCAGCATGTTCTTTATTAGAAAGATTTACTCAT 2008
                                                                                                         1472 rerecarrecerrareaarrecrestrererestreceasaasaareresessa 1531
                                                                                                                                                                                                                                                                                                                                                                     rérafrirratriacacardiriciéricariaagairirciacargircégerirciar 1711
                                                                                                                                                                                                                                                                                                                                                                                                                                                         1712 TTTTTCATTCCTTTTATTGACGTTGACAACCTCGTTGGTCACTGTAATGATCACTTATC 1771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1772 ATTCGTTATGCCTAGAAAACTGGAAGTGGCAATGGAGGGGATTTATC---GTCGGAGGTG 1828
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATG 1660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1661 GCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGA 1720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GATTCGTTACCATTGTTTTGTACTTGGGATATTCTTCTGTTATTTCATTGCTATGTTT 1948
                                                                                                                                                                                                                                                                                  AAACTCTACCGGCTACTTTAATTGCTGGTATTTTCCCCTTCGGTTCTATTGCCGTTGAAT 1651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Arahrdaagrirrarriracciarircegriraarirceaggaariccccacrircargggcra 889
                                                                                                                                                    1301 ACTITICCTIGICGEGERAAAGCIGIGCCTCGTCCTATACCGGAGAAAAAAGGTTCATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                584 ATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: NAKAO, YOSHIHIRO
APPLICANT: NAKAO, YOSHIHIRO
APPLICANT: NAKAWIRA, NORIHISA
APPLICANT: KODAMA, YUKIKO
APPLICANT: KODAMA, YUKIKO
APPLICANT: KODAMA, YUKIKO
APPLICANT: BASHIKARI, TOSHIHIKO
TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
FILE REPERENCE: 030685-040
CURRENT APPLICATION NUMBER: US/10/932,182A
CURRENT FILING DATE: 2004-09-02
NUMBER OF SEQ ID NOS: 197023
SOFTWARE: PATENTIN VETSION 3.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5.8%; Score 120; DB 7; Length 2025;
46.2%; Pred. No. 2.1e-09;
ive 0; Mismatches 630; Indels 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 4690, Application US/10932182A Publication No. US20060046253A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Saccharomyces pastorianus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1781 ATGTGAAAATTGACTA 1796
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ccarcaaacracarra 2024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
nes 562; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -10-932-182A-4690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-932-182A-4690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 4690
                                                                                                                                                                                             1532
                                                                                                                                                                                                                                       1361
                                                                                                                                                                                                                                                                                  1592
                                                                                                                                                                                                                                                                                                                                                                   1652
                      1412
                                                                   1241
                                                                                                                                                                                                                                                                                                                           1421
                                                                                                                                                                                                                                                                                                                                                                                                                1481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Loca
Matches
                                                                                                   임
                                                                                                                                                ò
                                                                                                                                                                                    셤
                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
D
                                                               ઠે
                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
```

දු ද

දි සි

Search completed: March 10, 2006, 22:46:09 Job time : 669.273 secs

```
Sequence 1, Appli
Sequence 18829, A
Sequence 679, App
Sequence 1591, A
Sequence 28414, A
Sequence 12613, A
Sequence 12613, A
Sequence 1699, App
Sequence 1715, A
Sequence 1715, A
Sequence 1715, A
Sequence 1009, App
Sequence 1002, App
                                                                                                                        March 10, 2006, 21:37:26 ; Search time 314.887 Seconds
  (without alignments)
  10313.561 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 3, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                  1 agcttccaccatggcggccg.......cacagcaaaaacaaacaaac 1827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Description
GenCore version 5.1.7 Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /cgn2_6/ptodata/1/ina/1_COMB.seq:*
/cgn2_6/ptodata/1/ina/5_COMB.seq:*
/cgn2_6/ptodata/1/ina/6A_COMB.seq:*
/cgn2_6/ptodata/1/ina/6B_COMB.seq:*
/cgn2_6/ptodata/1/ina/H_COMB.seq:*
/cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
/cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
/cgn2_6/ptodata/1/ina/PP_COMB.seq:*
/cgn2_6/ptodata/1/ina/PP_COMB.seq:*
/cgn2_6/ptodata/1/ina/RE_COMB.seq:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         S-10-104-047-1699
S-09-270-767-14715
S-09-248-796A-6208
S-09-313-294A-2292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -09-270-767-12633
-09-949-016-3623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -09-614-124B-1002
                                                                                                                                                                                                                                                                                                                                                                                                                    Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -09-786-681A-3
                                                                                                                                                                                                                                                                                                                                                                            1303057 seqs, 888780828 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                      - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                           IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Issued Patents NA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Minimum DB seq length: 0
Maximum DB seq length: 2000000000
                                                                                                                                                                                                                 US-10-755-466-3
1827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query
                                                                                                                                                                                                                   Title:
Perfect score:
                                                                                                                                                                                                                                                                                                              Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             383.4
369.8
369.8
364.8
230.8
227.6
227.6
161.2
                                                                                      OM nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Database :
                                                                                                                                                                                                                                                                                                                                                                               Searched:
                                                                                                                                                                                                                                                                  Sequence:
                                                                                                                               Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Result
```

Sequence 1, Appli	US-09-790-988-1	640681 3	2.3 64(	42	45
Sequence 9, Appli	US-08-909-965C-9	882 2	2.3	42.2	44
Sequence 24371, A	US-09-270-767-24371	m	2.3	42.4	c 43
Sequence 9089, Ap	US-09-270-767-9089	m	2.3	42.4	c 42
Sequence 909, App	US-09-313-294A-909	ო _	2.4	43	41
Sequence 15, Appl	US-09-841-786-15	m		43.2	40
8	US-09-841-786-8	e M		43.2	39
Sequence 10, Appl	US-09-841-786-10	2780 3		43.2	38
'n	US-10-274-990-3	202001 3	2.4 20	44.2	37
Sequence 3, Appli	US-09-734-674-3	202001 3	2.4 203	44.2	36
Sequence 26, Appl	US-09-662-254B-26	50000 3	2.4 5	44.4	c 35
Sequence 10, Appl	US-09-798-096-10	9500 3	2.4	44.6	G 34
. Sequence 22, Appl	US-09-806-708B-22	1141 3	2.5	45.4	c 33
Sequence 20, Appl	US-09-175-928-20	519 3	2.5	45.6	32
Sequence 20, Appl	US-08-686-878A-20	519 2	2.5	45.6	31
Sequence 772, App	US-09-313-294A-772	299 3	5.6	47.8	30
Sequence 15365, A	US-09-949-016-15365	65561 3	2.7 6	49.2	29
Sequence 127246,	US-09-949-016-127246	601 3	2.7	49.2	28
Sequence 14, Appl	US-08-232-463-14	7218 2	2.8	50.4	c 27
Sequence 22, Appl	US-09-806-708B-22	щ.	2.8	51	26
	US-08-232-463-14	7218 2	2.8	51.8	25

```
GENERAL INFORMATION:
APPLICANT: HIDAKA, Jun et al.
APPLICANT: HIDAKA, Jun et al.
TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L.
TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
FILE REPERENCE: 0020-4827P
CURRENT PELLING DATE: 2010-124
NUMBER OF SEQ ID NOS: 7
SOFFWARE: PATENTIN VEISION 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTGTGAAATTGATTTAGATAAAGAAAAGAGATGCATTTGTATATGCCATAAAAATCA 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 AGCTTCCACCATGGCGGCGCCGCGCTGCTGCTGCTGCTGCTGCCCCGGACCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 GGCGGACGACCACGAACCACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 GGCGGACGAGCACGAACACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121 TGTTGGGCCCTACCATAATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGŢ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121 IGTIGGGCCCTACCATAATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181 GGGGTCAAAAAAAGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181 GGGGTCAAAAAAAGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGT
                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                      .
0
                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                   DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                 Query Match
100.0%; Score 1827;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1827; Conservative 0; Mismatches
Sequence 3, Application US/09786681A
Patent No. 6692926
                                                                                                                                                                                                                                                  TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                      ; NAME/KEY: CDS
; LOCATION: (11)..(1747)
US-09-786-681A-3
                                                                                                                                                                                                             SEQ ID NO 3
                                                                                                                                                                                                                                                                                          FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
```

8 6 8 6 8 6 8 6 8 6 8

ò

8 8 8

8 8

301 CTGTGAAATTGATTTAGATAAAGAAAGAGAGATGCATTTGTATATGCCATAAAAATCA 360	• .	1381 CATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGT 1
	. ,	1441 GCTGGTTATCCTGTGCATTGTGACTGTCTGTGACTATTGTGTGCACATATTTTCTACT
421 TGAAAATGGAGAAGATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGG 480 421 TGAAAATGGAGAAGATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGG 480		OY 1501 AAATGCAGAAGATTACCGGTGGCAATGGAAGTTTTCTCTCTGCTGCAACTGCAAT 1560  1501 AAATGCAGAAGATTACCGGTGGCAAATGGACAAGTTTTCTCTCTC
481 AAATCGAATTGTTGATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATAC 540 481 AAATCGAATTGTTGATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATAC 540		CTATGITTACATGTATCCTTTTACTACTATTTTTCAAAGAAGATGTATGT
541 TAAAATCCAGATGTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCG 600 541 TAAAATCCAGATGTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCG 600		TCAAAATCATTTACTTGGATATATGGGGGTATTTAGCAAGCCTTGGGGATAATGTG 
601 ATTTGACAAATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTT 660 601 ATTTGACAATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTTCAACATCGGATTCATTGGTTTTTCAACATCGGATTCATTGATTTTT 660		TGGAGGATTGGTTACATGGAACAGTGCCTTTGTCGAAAATCTATACTGAATGTGAA 
661 CAACTCCTTCATGATGGTGATCTTCTTGGTGGGCTTAGTTTTCAATGAGAAC 720 		AATTGACTAGAGACCCAAGAAACCTGC 
		Oy 1801 GAACTIGCACAGCAAACAACTAAC 1827 
781 CCTAGGAGATGAATATGGATGGAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCA 840 		RESULT 2 US-09-786-681A-1 ; Sequence 1, Application US/09786681A
941 CCCACTGATATTTTCCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCAT 900		; Facent No. 6692926; GENERATION: GENERATION: APPLICANT: HINDRAGA , Jun et al.; APPLICANT: HIDAZA , Jun et al.; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L
901 CGTTATTATTGTTGCAATGATAGAAGATTTATATACTGAGAGAGA		; FILE OF INVENIENCE: 0020-4827P; FILE REFERENCE: 0020-4827P; CURRENT APPLICATION NUMBER: US/09/786,681A; CURRENT FILING DATE: 2001-01-24
961 AGCCATATTTGTCTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTA 1020 		
1021 TGCTAGACAAGGAGGAGGAGGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCC 1080 	•	Ношо
1081 AGCTAIGGIGIGGGACIGCCTICTICAICAATITCAIAGCCAITIATIACCAIGCTIC 1140 		94.) 99.3%; Score 1814;
1141 AAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGTTTTTTGTTATTCT 1200 1141 AAGAGCCATTCCTTTTGAACAATGGTGGCCGTTTTTTTTT		Best Local Similarity 100.0%; Pred. No. 0; Matches 1814; Conservative 0; Mismatches 0; Indels 0; Gaps 0; Qy 14 GCGGCCGCGCTGTGCTGCTGCTGCTGCTGCTGCCCGGACCGGGGGGAGCACCAGCCAG
1201 TCCTCTAAATCTTGTTGGTACATACTTGGCCGAAATCTGTCAGGTCAGGCCCAACTTTCC 1260		
1201 TIGICIAMINICIIGISERCAMINICIIGACCGAMINICIAICAGCICAGCICAGCCCAMINICI 1200 1261 TIGICGTGTCAATGCTGTGCCTCGTCTATACCGGAGAAAAAATGGTTCATGGAGCCTGC 1320 1261 TIGICGTGTATACTGTGTTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCATGGAGCTTGC 1320		121 GAACACGTATCAAGATAAAGAAGAAGTTGTCTTATGGATGAATACTGTTGGCCCTAC 134 CATAATCGTCAAGAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAA
1321 GGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATT 1380 1321 GGTTATTGTTTGCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTT 1380 1321 GGTTATTGCTTGGGTGGAATTTTACCTTTTTGGTTCAATCTTTATTGAAATGTATTT 1380	<u></u>	181
1381 CATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGT 1440		AGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTT

8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

	9621976 J.B. 1coded Human, Proteir 09/621,976	Query Match         24.3%; Score 444; DB 3; Length 444;           Best Local Similarity         100.0%; Pred. No. 7.4e-107;           Matches 444; Conservative 0; Mismatches 0; Indels 0; Gaps 0;           Qy         503 CTAACTAGTGAAAGGTGAAACTGGTTCCAATACTAAATCCAGATGTCATTTCA 562           Db         1 CTAACTAGTGAAAAGGTGAAACTGGTTCCAATACTAAAATCTAGATTTCA 60           C         563 GTAAAATGGAAAAGGTGAAATTTGAAATTTGACAAATTTCAACAATTTCACC 622           Db         61 GTAAAATGGAAAAAGTCAATTGAAATTTGACAAATTTGACAAATACTTGATCC 622           Db         623 TCCTTTTTTCAACATCGGATTCATTGGATTTTCAACTTTTCAACTTTCATGATCC 682           Db         121 TCCTTTTTTCAACATCGGATTCATTGATTTTCAATTTTCAACTCCTTCATGATGGTGATC 682           C         683 TTCTTGGTGGGCTTAGTTTTAATGAGAACTCCTTCATGATGGTGATC 180           Cy         683 TTCTTGGTGGGCTTAGTTTTAATGAGAACTTTCAAAAAATGGTGATC 780
254 AGTGGTCTGGATATTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGAT 313 301 AGTGGTCTGGATATTAAATTTAAAGATGATGTGATGCCAGCCA	194   TATGGATGGAAACAGGTGAGATGTATTTAGACCATCAAGTCACCAGTGATATT   853   1   1   1   1   1   1   1   1   1	1094 GGCACTGCCTTCTCATCATAGCCATTPATTACCATGCTTCAAGAGCCATTCT 1153  1141 GGCACTGCCTTCTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCT 1200  1154 GGCACTGCCTTCTTCATAGCCATTTATTACTATTCTTCTTCTTCTTCTT 1210  1151 TTTGGAACAATGGTGGCCGTTTGTTGCTTTTTTTTTTTT

```
422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 5
                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                  US-09-513-999C-3708

Sequence 3708, Application US/09513999C

Patent No. 6783961

APPLICANT: Duclert, A.

APPLICANT: Duclert, A.

APPLICANT: Giordano, J.Y.

TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.

Patent No. 6783961

Patent No. 6783961

PAPLICANT: Giordano, J.Y.

TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.

CURRENT FILING DATE: 2000-02-24

PRIOR APPLICATION NUMBER: US/09/513,999C

CURRENT FILING DATE: 1999-02-26

NUMBER OF SEQ ID NOS: 36681

SEQ ID NOS: 36681

SEQ ID NOS: 36681
                                                                                                          AAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTGTG 862
                                                                                                                             301 AAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCCCACTGATATTTTCCTCTCTG 360
                                                                                                                                                                 AITGGTTCTCGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATA 922
                                                                                                                                                                                                 361 ATTGGTTCTGGATGTCAGATATTTGCTGTCTCTCTCGTTATTATTGTTGCTATGATA 420
                                              GAAGATTTATATACTGAGAGGGGA 946
                                                                                                                                                                                                                                                 or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        υ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ģ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCATION: 397 OTHER INFORMATION: m=a or FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  THER INFORMATION: w=a or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COCATION: 343 TOTHER INFORMATION: n=a,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION: n=a,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INFORMATION: m=a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INFORMATION: 8=g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INFORMATION: k=g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: misc feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: misc_feature
LOCATION: 397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AME/KEY: CDS
OCATION: 180..440
                181
                                              743
                                                                                                          803
                                                                                                                                                                    863
                                                                                                                                                                                                                              923
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OCATION:
                                                                      d
                                        .∂
                                                                                                        ģ
                                                                                                                                  g
                                                                                                                                                                    ò
                                                                                                                                                                                               ద
                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                         셤
```

```
946 ATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCTACGTCT-CCAGTGAATGGTTATT 1004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           825
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   885
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            945
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        62 TITCAAITITCAACICCIICAIGAIGGIGAICTICTIGGIGGGCIIAGITICAAIGAITI 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     766
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       302 recrerenterenterraryarientecaarearadadanintararacidadadese 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Patent No. 6703491
GENERAL INFORMATION:
FALCALY Homburger et al.
APPLICANTION: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster FILE REFERENCE: File Reference: 7326-094
CURRENT FILING NUMBER: US/09/270,767
CURRENT FILING NAPE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOOTWARE: PatentIn Ver. 2.0
SEQ ID NO 679
LENGTH: 771
TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      826 TAGACCATCAAGTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                242 TAGACCATCAAGTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              886 IGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATGAGATTTTATATACTGAGAGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           767 GAT-ATGGATAGAGACCTAGGAGATGAATATGGATGGAAACAGGTGCATGGAGATGTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          362 ATCAATGCTCAGTACAGCCATATTTGTCTATGCTGMTAMGTCTCCCCAGTGAATGGTTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               651 TITCAAITITCAACTCCTTCATGATGGTGATCTTCTTGGTGGGGCTTAGTTTCAATGATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                711 TAATGAGAACATTAAGAAAAG----ATTATGCTCGGTACAGTAAAGAGGAAGAAATGGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 21.0%; Score 383.4; DB 3; Length 440; Best Local Similarity 95.7%; Pred. No. 6.7e-91; Matches 420; Conservative 5; Mismatches 8; Indels 6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    591 TIGAAGAICGAITIGACAAATAICIIGAICCGICCIII
                                                                                                             Thr
                                                                                                                                                                                                      or Val
                                                                                                                ö
                                                                                                                or Arg
                                                                                                                                                                                                   Xaa=Ala or Asp or Gly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1005 TIGGAGGAAGICIGIAIGC 1023
                                                                                                             Xaa=Lys or Met
                                                                                                                                                                                                                                                                                                                                    NAME/KEY: UNSURE

LOCATION: 74

CTHER INFORMATION: Xaa=Lys or Thr

US-09-513-999C-3708
                                                                                                                                                                                                                                                                      LOCATION: 73
OTHER INFORMATION: Xaa=Ala or Asp
                          υ
LOCATION: 400
OTHER INFORMATION: m=a or
                                                                                                                                FEATURE:
NAME/KEY: UNSURE
LOCATION: 55
OTHER INFORMATION: X
                                                                NAME/KEY: UNSURE LOCATION: 2 , OTHER INFORMATION:
                                                                                                                                                                                                                           FEATURE:
NAME/KEY: UNSURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-270-767-679/c
```

ö

```
683
                                                                                                                                                                                                                                                                                                                                                                                                                                                               645
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 983
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1283
                                                                                                                                                                                                                  563
                                                                                                                                                                                                                                                                765
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  923
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                 δ
                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACGICICCAGIGAAIGGITAITITIGGAGGAAGICTIGIAIGCIAGACAAGGAAGGAGA 1042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGCCACTGCC 1102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCT 1282
                                                                                                                        ö
                                                                                                                                                                    622
                                                                                                                                                                                                                  706
                                                                                                                                                                                                                                                                   682
                                                                                                                                                                                                                                                                                                                    646
                                                                                                                                                                                                                                                                                                                                                                  742
                                                                                                                                                                                                                                                                                                                                                                                                                586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 802
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   982
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Arechecestracerecterretricientrescreterretrescreterescreteres 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rrccrearcaacrrcarreccarregararcacecreeaeaeccarreccrreegrace 166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 6
US-09-270-767-15961/C
US-09-270-767-15961, Application US/09270767
; Sequence 15961, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nuclear acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFWARE: PatentIn Ver. 2.0
; SEQ ID NO 15961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               623 TCCTTTTTCAACATCGGATTCATTGGTTTTTCAATTTTCAACTCCTTCATGGTGGTGATC
                                                                                                                                                                                                                                                                                                          705 AACTICTICCAGCACAGGATCCACTGGTTCAGCATCTTCAACAGCTTCATGATGGTCATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              525 aagcagerecarescearererrecerrerececeaaaaaacrecrerrerescerre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTOGITCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cerciantricia de la consecución del consecución de la consecuci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGTTATTCTTCCTCTAAATCTTGTTGGTACA
                                                                                                                                                                    GTAAAATGGAAAAAGTCAGATGTGAAATTTTGAAGATCGATTTGACAAATATCTTGATCCG
                                                                                                                                                                                                                                                                                                                                                                  TTCTTGGTGGGCTTAGTTTTCAATGATTTTAATGAGAACATTAAGAAAAAATTATGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                rrccresresercresrercarearrergareceaacrereceaagarrarecres
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TACAGTAAGGACGAGGAAATCGACGACGAGGAGGATCTTGGTGATGAATACGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCCACTGATATTTTCCTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  recarcacacacacacacacacacacacacarrirance
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Greeresecesakreresaceseckacesakriricarisecesecrekacesesek
                                                                                                                        Gaps
                                                                                                                      ö
                                                                  Length 771;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATT 1327
                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Mismatches 247;
                                                                     DB 3;
                                                                  Score 369.8; DB 3
Pred. No. 3.3e-87;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Argereeccerrerrecarcierrrrr
; ORGANISM: Drosophila melanogaster US-09-270-767-679
                                                                     20.2%;
                                                                                                                   Matches 518; Conservative
                                                                                            Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1043
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1283
                                                                                                                                                                       563
                                                                                                                                                                                                                     765
                                                                                                                                                                                                                                                                                                                                                                                                                645
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    863
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     983
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      165
                                                                                                                                                                                                                                                                                                                                                                     683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      923
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               45
                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                       ઠ
                                                                                                                                                                                                          ద
                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                  ŝ
                                                                                                                                                                                                                                                                                                                                                                                                         임
                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
```

```
1282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTCTTCATCAATTTCATAGCCATTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACA 1162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACGICICCAGIGAAIGGITATITIGGAGGAAGICIGIAIGCIAGACAAGGAGGAAGGAGA 1042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   622
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            706
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             682
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             646
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       802
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           982
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Triccigarcaaciticalidecatigaatarcacecciceaeaeccaticecificecataec 166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGTGAATTGTACACGGGACGCGCTCCATGCTGTCCACGGCTATATTTGTGTATGCCGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGGATCCGACAGATGCTGGTGTCCGCTTTTACAGTTCCAGTGGTGTGCGGCACGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ġricalacricialagecceaecalegaericalegaericaliteaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericalegaericale
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rrccreerecrescrescerestrereareceaacresceaegarrargeres
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                585 TACAGTAAGGACGAGGAAATCGACGACATGGAGCGAGATCTTGGTGATGAATACGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         525 AAGCAGGAGGAGGAGACTTCCGTTCTCCGCCCAACACACTGCTCTTCTCGGCGTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          465 Greececrecaraccaacrearriceerrerarricrererererererececaractr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      345 Accricacidarical programmentario de la reconstrucción de la reconstr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATACTIGGCCGAAAICIGICAGGICAGCCCAACTITCCTIGICGIGICAAIGCIGIGCCI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              623 TCCTTTTTCAACATCGGATTCATTGGTTTTTCAACTCCTTCATGATGGTGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               105 AACTICCAGCACAGGAICCACIGGITCAGCAICTICAACAGCITCAIGAIGGICAIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TICTIGGIGGCCTTAGITICAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GAAGATTTATATACTGAGAGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  165 Argardacadreaceriacarcracrarrararecrarecraraacraragada
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 3502, Application US/09513999C
Patent No. 6783961
Patent No. 6783961
Patent No. 6783961
APPLICANT: Duclert, A. APPLICANT: Glordano, J.Y.
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
Patent No. 6783961
FILE REFERENCE: 59.US2.REG
                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                          Length 771;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATT 1327
                                                                                                                                                                                                                                                                                 Score 369.8; DB 3; Length
Pred. No. 3.3e-87;
0; Mismatches 247; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-15961
                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 67.7%;
Matches 518; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-513-999C-3502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1043
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1223
```

```
1647 TGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAA 1706
                   1347 TACCTTTTGGTTCAATCTTATTGAAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 12633, Application US/09270767
Patent No. 6703491
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       , OKGANISM: Drosophila melanogaster US-09-270-767-12633
                                                                               1407 AGATCTATTATGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-270-767-12633
                                                                                                                                                                      121
                                                                                                                                                                                                   1527
                                                                                                                                                                                                                                 181
                                                                                                                                                                                                                                                             1587
                                                                                                                                                                                                                                                                                                                          1647
                                                                                                                                          1467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
                                                                             ઠે
                                                                                                        쉽
                                                                                                                                      ઠે
                                                                                                                                                              ద
                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                       名
                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                    196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               436
                                                                                                                                                                                                                                                                                                                                                                         124 AATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGGGGGTCAAAAAAAGT 183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGTCTGGATATTAAATTTAAAGATGATGATGCCAGCCACTTACTGTGAAATTGATTTA 316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GATAAAGAAAAAGAGAGATTGTATATGCCATAAAAATCATTACTGGTACCAGATG 376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 304 GATAAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATG 363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            364 TACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAATGGAGAAT 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     of Drosophila melanogaster
                                                                                                                                                                                                                                                                                                                                                                                                                    AATCGTCAAGAAACATATAAGTACTTTTCACTTTCCATTCTGTGTGGGGTCAAAAAAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                184 ATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGGTTGAATTGGAATTTAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TACATAGATGATTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGGAGGAT
                                                                                                                                                                                                                                                                                                                                                      77 CACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCAT
                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 571;
                                                                                                                                                                                                                                                                                            Length
                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 230.8; DB 3;
Pred. No. 1.1e-50;
0; Mismatches 112;
                                                                                                                                                                                                                                                                                          Score 364.8; DB 3;
Pred. No. 5.2e-86;
1; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Homburger et al.
TITLE OF INVEXTYION: NUCleic acids and proteins
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILMG DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PATENTIN Ver. 2.0
CURRENT APPLICATION NUMBER: US/09/513,999C
CURRENT FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/122,487
PRIOR FILING DATE: 1999-02-26
NUMBER OF SEQ ID NOS: 36691
SOFTWARE: Patent.pm
SEQ ID NO 3502
LENGTH: 433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 28434, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; ORGANISM: Drosophila melanogaster US-09-270-767-28434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12.6%;
                                                                                                                                                                                                                                                                                          20.0%;
                                                                                                                                                                                                                                                                                          Query Match . 20.0
Best Local Similarity 98.9
Matches 366; Conservative
                                                                                                                                                                                                                                              ; OTHER INFORMATION: m=a or US-09-513-999C-3502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 72.7
Matches 298; Conservative
                                                                                                                        TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                 NAME/KEY: misc_feature
                                                                                                                                                                   NAME/KEY: CDS
LOCATION: 100..432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 8
US-09-270-767-28434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 28434
LENGTH: 571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   317
                                                                                                                                                                                                                                 LOCATION:
                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
```

ACTATITITICAAAACAAAGAIGIAIGCTIAITICAAACAICAITITACTITIGGATAIA 1646 1406 1526 1586 TGCCGGTATTTAGCACACCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAA 1706 1466 1646 180 240 300 240 61 AGATCTACTACGTCTACGGCTTCATGTTGCTGGTTTTCAGCATCCTGACTGTGGTCACCG 120 120 241 ACTICITIVAAAACCAAAATGITCGGTCTGTTCCAAACGGCCTTCTACTTTGGCTACA 300 9 9 GENERAL INFORMATION:
APPLICANT HOMBUTGER et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster.
FILE REFERENCE: File Reference: 7326-094
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 12633
LENGTH: 1151 TCTGTGTGACTATTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAAT GGACAAGITITICICICIGCIGCATCAACIGCAATCIAIGTITIACAIGTATICCITITIACT 241 ACTICITITAAAACCAAAAIGITCGGICIGITCCAAACGGCCITCIACITIGGCIACA 1 recectification retreation and retreater retreater researched 301 TGGCACTCTTCAGCGGCGCCTTGGGCATTATCTGCGGCACCGTCGGCTATGTGGGCCAA 181 edakceaerrircarescrececececececearriacereracecerarecerrirerare 1587 ACTATITITICAAAACAAAGAIGTAIGGCITATITICAAACAICATITIACTITIGGATATA rerecercaccarcerereceracracracracrasarieceasearraceareecaca geaceaetricarectreceecrecacerearriacereracecrarrectricitari 1347 TACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATA TCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAAT 121 TGTGCGTCACCATCGTGTGCACCTACTTCCTGCTAAATGCCGAGGATTACCGATGGCAGT GGACAAGTTTTCTCTCTGCTGCATCTACTGCTATCTATACATGTTTACATGTTTTACT 1707 GIGCCTITIGICCGAAAAICTATACTAAIGIGAAAAITGACTAGAGACCC 1756 ö Length 1151; 361 Arcretrigieceaaaaretarrecaarereaaaaraeaeraaeaecee Indels Query Match 12.6%; Score 230.8; DB 3; Best Local Similarity 72.7%; Pred. No. 1.5e-50; Matches 298; Conservative 0; Mismatches 112;

```
1821 rearmingerrariaccertrergaadeaacharachterrecraritrecacciargid 1880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1881 changarithrchridgenhidgegrrearitechracangegridgertrachden 1940
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CATCATTITACTTITGGATATATGGGGGTATTTAGCACAGCCTTGGGGGATAATGTGTGGAG 1685
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1386 TCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGG 1445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1761 iganagiairidgicacacacatarracaigringcerrectarritergerira 1820
                                                                                                                                                                                                                            1584 reacertrarregrecaracrtregrerrraagaareccarreaacac---ccaerrc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTTACATGTATTCCTTTTTACTACTATTTTTTTCAAAACAAAGATGTATGGCTTATTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          rcinaanciangcagnacachachtriticaaaacugcagaicacgggaacagca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2061 caairiescirciriscanscrringsiristraccaaaararacasistesassiris
                                                                                                                                                                                                                                                                                                               GTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTA
                                                                                                                                                                                                                                                                                                                                                                                 1641 GAACCAÁTCAGATTCCACGTCATTCCTGÁACAGTCGTTCTACACGAAGCCCTTGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TIGITITGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTG
                                                                                                                                                         1206 TAMATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Kaser, Matthew TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE TITLE OF INVENTION: PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/959,004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 6, Application US/08959004
Patent No. 6197543
GENERAL INFORMATION:
GAPPLICANT: Hillman, Jennifer L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Yue, Henry
Corley, Neil C.
Lal, Preeti
Shah, Purvi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3174 Porter Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSER: Incyte Ph
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2121 ACTGAAGA 2128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1746 ACTAGAGA 1753
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Palo Alto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ZIP: 94304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1941
        1146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1506
                                                                                                                                                                                                                                                                                                                       1266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1566
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1686
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                   8.8
                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 60/231, 40

Sequence 3623, Application US/09949016

Sequence 3623, Application US/09949016

Patent No. 6812339

GENERAL INFORMATION:

TITLE OF INVENTION: POLYNORPHISMS IN KNOWN GENES ASSOCIATED

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

CURRENT APPLICATION NUMBER: 00/09/1,755

PRIOR FILING DATE: 2000-10-03

PRIOR FILING DATE: 2000-10-03

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR PILING DATE: 2000-10-03

PRIOR PILING DATE: 2000-10-03

NUMBER OF SEQ ID NOS: 207012

SEQ ID NOS: 207012

SEQ ID NOS: 207012

SEQ ID NOS: 2033
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1056 recreatrerrerrerrerresanterrecraterrarerrarerrares
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1116 AAGATATTGCTAGATATAATCAGATGGACTCTACGGAAGATGCCCAG------G 1163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            triricecriace de de la reconstructiva de la reconstrucción de la reconstructiva de la reconst
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1404 CCTTTGGAGGTGAGAAGTGGAAAACAAATGTTTTAATAACATCATTTTTTGTCCTGGGA 1463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGGTGTGTGGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAG 1145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   996 actatatateresasteratsecretaraceartressissataracattatsatatated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1224 recrarcactricia de arcedes acacada de recrara de contra de co
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TATITIGICIATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTA 1025
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1344 restrecrereserrecressecaceersecressecratisarisersecratarieranas 1403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1026 GACAAGGAGGAAGGAGATAAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTA 1085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     trorarridorgacricitrarargaarcricarcorogogagaagarcricagoad 1523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          728
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TATTITICCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTA 908
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TIGITGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTAC---AGCCA 965
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 668
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAG 788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGA 848
TCATGATGGTGATCTTCTTGGTGGCTTAGTTTCAATGATTTAATGAGAACATTAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                GIGCCTITIGICCGAAAATCTATACTAATGTGAAAATTGACTAGAGACCC 1756
                                                                                                                                                                 361 ATCTCTTGTGCGCAAAATCTATTCCAATGTGAAAATAGAACTAAGAGCCC 410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     609 AATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 227.6; DB 3;
Pred. No. 1.5e-49;
0; Mismatches 534;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12.5%;
51.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               vuery match 12.5
Best Local Similarity 51.9
Matches 596; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
ORGANISM: Human
US-09-949-016-3623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1086
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          789
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    849
                                                                                                                                    1707
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             909
                                                     301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                     셤
                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ਨੇ
```

```
1689 GAACCAATCAGATTCCACGTCAGATTCCTGAACAGTCGTTCTACACGAAGCCCTTGCCTG 1748
                                                                                                                                                                                                    TCACGTCTTTCTGGGCATATAAGATCTATGTCTATGGCTTCATGATGCTGGTGCTGG 1445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAGAGGATTATCATTGGCAATGGCGTTCATTCCTTACGAGTGGCTTTACTGCAGTTTATT 1988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTG 1745
                                                                                         1326 TTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTCATCT 1385
                                                                                                                                                                                                                                                     rgaaragrarriggrcacaccagargrarracargririggcrrccrarricriggrgrrrr 1868
                                                                                                                                                                                                                                                                                                                  TTATCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATG 1505
                                                                                                                                                                                                                                                                                                                                                                      TCATTTTGGTTATTACCTGTTCTGAAGCAACTATACTTCTTTGCTATTTCCACCTATGTG 1928
                                                                                                                                                                                                                                                                                                                                                                                                                          CAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATG 1565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAG 1685
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAATTCTGTACTTTGGTTATACCATGATAATGGTTTTGATCTTCTTTTTTTACAGGAA 2108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Caatriescritcritecarscrittsstricitaccaaaharacasisteserisaassirs 2168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              728
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAG 788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    789 ATGAATAIGGAIGGAAACAGGIGCAIGGAGAIGIATIIAGACCAICAAGICACCACIGA 848
                                                                                                                                             1749 GTATTATCATGGGAGGGATTTTGCCCTTTGGCTGCATCTTTATACAACTTTTCTTCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              669 TCATGATGGTGATCTTCTTGGTGGGCTTAGTTTTCAATGATTTTAATGAGAACATTAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    693 ACTATATTCTGGAGTCTATGCCTCATACCCACATTCAGTGGTTTAGGATTATGAATTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           813 AAGATATTGCTAGATTAATCAGATGGACTCTACGGAAGATGCCCAG------G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   609 AATATCTTGATCCGTCCTTTTTCAACATCGGATTCATTGGTTTTTCAATTTTTCAACTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 1878;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 226; DB 3; Length 187
Pred. No. 3.5e-49;
0; Mismatches 535; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1699, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. 6943241e1 full length cDNA; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE:
; PRIOR APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 51.8%;
Matches 595; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 4096
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACTGAAGA 2176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1746 ACTAGAGA 1753
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA
CORGANISM: Homo sapiens
US-10-104-047-1699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -10-104-047-1699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1989
                                                                                                                                                                                                                                                           1809
                                                                                                                                                                                                                                                                                                                  1446
                                                                                                                                                                                                                                                                                                                                                                      1869
                                                                                                                                                                                                                                                                                                                                                                                                                          1506
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1566
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1686
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         729
                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ٠ ద్ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1104 regrearrerrerrerrerseaaregragerarearrarerraceacaciecaca 1163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1212 AAGAATTTGGCTGGAAACTTGTTCATGGTGATATATTCCGTCCTCCAGAAAAGGGATGC 1271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TATTTGTCTATGCTGCTACGTCTCCAGTGATGGTTATTTTGGAGGAAGTCTGTATGCTA 1025
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1026 GACAAGGAGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTA 1085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGGTGTGTGGCACTGCCTTCTTCAATTTCATAGCCATTTATTACCATGCTTCAAGAG 1145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1206 TANATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCCAACTTTCCTTGTC 1265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1044 actatatricregaercrareccricaracceacatricaerecritraecarrareaarrice 1103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1272 iscraicascrirciassarcessas asarriraariais accrireres 1331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1392 TGGTCCTGTGGGTGCTGCTGGCCCCCTGCAGGCTATGTTGCTGCCAGATTCTATAAGT 1451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1452 CCTTTGGAGGTGAGAAGTGGAAAACAAATGTTTTATTAACATCATTTCTTTGTTCCTGGGA 1511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1512 TTGTATTTGCTGACTTCTTTATAATGAATCTGATCCTCTGGGGAGAAGGATCTTCAGCAG 1571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1572 CTATTCCTTTTGGGACACTGGTTGCCATATTGGCCCTTTGGTTCTGCATATCTGTGCCTC 1631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1632 TGACGTTTATTGGTGCATACTTTGGTTTTAAGAAGAATGCCATTGAACAC---CCAGTTC 1688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1266 GIGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTA 1325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         848
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1332 TTTTCGCTTGCCTGGGATTTTTGTCACCTGCCAACCGAGGAGCGCTGATGACGTGTGCTG 1391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IATTTICCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTA 908
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TIGITGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTAC---AGCCA 965
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1164 AAGATATTGCTAGATATAATCAGATGGACTCTACGGAAGATGCCCAG------Ġ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AATAICTIGAICCGICCTTTTTTCAACAICGGAITCATTGGITTTCAATTTTCAACTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TCATGATGGTGATCTTCTTGGTGGCCTTAGTTTCAATGATTTTAATGAGAACATTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGGAGCCTAGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 12.5%; Score 227.6; DB 3; Length 2805; Best Local Similarity 51.9%; Pred. No. 1.6e-49; Aatches 596; Conservative 0; Mismatches 534; Indels 18;
PILING DATE: Herewith
CLASSTRICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
PILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: BILLINGS, Lucy J.
REGISTRATION NUMBER: 36,749
REFRENCE/DOCKET NUMBER: PF-04
TELEPROMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO: 6: SEQUENCE CHARACTERISTICS: LENGTH: 2805 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear IMMEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                            TELEFAX: 650-845-4166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; LIBRARY: ADRETUTO6
; CLONE: 2822412
US-08-959-004-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   789
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               606
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
```

셤

ઠે

q ò

ò

g

8 셤 ò

ò

ద

셤

Š

셤

ሯ

g ò

ò

```
셤
                                                                                                                                                                                                                                                                                                                                                   Š
                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                      1205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1026 GACAAGGAGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTA 1085
                                                                                                                                                                                                                                                                                   101 CCTTTGGAGGTGAGAAGTGGAAACAAATGTTTTATTAACATCATTTCTTTGTCCTGGGA 1160
                                                                                                                                                                                                                                                                                                                    TGGTGTGTGTGCCATGCCTTCTTCAATTTCATAGCCATTTATTACCATGCTTCAAGAG 1145
                                                                                                                                                                                                                                                                                                                                                                                                                  crarriccirringsakcacrestreccararrescerrrissrrerscararcresecre 1280
                                                                                                                                                                                                                                                                                                                                                                                                                                                     TAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTC 1265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1266 GIGICAAIGCIGIGCCICGICCIAIACCGGAGAAAAAIGGIICAIGGAGCCIGCGGITA 1325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TIGITIGCCIGGGIGGAAITITACCITITIGGITCAAICITIAITGAAAIGIAITICAICI 1385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGG 1445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Trancergrecationeactercretereactainererecacatainiteratate 1505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        rcairrigemairaceneirereaageaacharachemeerarreceaecaechaneie 1577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATG 1565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1578 chekechirhrearrecchirecerrentrecrirecriraceacrecriracreckerrihir 1637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITACATGIATICCTITIACTACTATITITICAAAACAAAGAIGTATGGCTIATITCAAA 1625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAG 1685
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTG 1745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                981 friricecrusceresearrifriereaccisceaacceasesecercareacerere 1040
                                                                                                                                                                                  TATTIGICIATGCTGCTACGTCTCCAGTGAATGGTTATTITGGAGGAAGTCTGTATGCTA 1025
                                                                                                                                                                                                                 TGGTCCTGTGGGTGCTGCTGGCACCCTGCAGGCTATGTTGCTGCCAGATTCTATAAGT 1100
                                                                                                                                                                                                                                                                                                                                                   1161 Trgratrigcreacrretrataareaarerearecreresesagaassaretreacas 1220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1281 İGACGITİTAİTİĞİFGCATACITİTĞITITTAAGAAĞAATĞCCATTGAACAC---CCAGTİC 1337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1338 GAACCAATCAGATTCCACGTCAGATTCCTGAACAGTCGTTCTACACGAAGCCCTTGCCTG 1397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1398 Grarrarcardedaddearrrrrgcccrrrrdgcrgcarcrrraracaacrrrrcrrcarrc 1457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          921 fGCTATCAGTCTTTCTAGGATCCGGGACACAGATTTTAATTATGACCTTTGTGACTCTAT 980
                                                                                                                    TIGITGCAATGAIAGAAGAITIAIAIACIGAGAGGGGAICAAIGCICAGIAC---AGCCA 965
                                                     TATTITCCTCTCTGATTGGTTCTGGATGTCAGATATITGCTGTGTCTCTCATCGTTATTA 908
                                                                                                                                                                                                                                                                                                                                                                                      ACTGAAGA 1825
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACTAGAGA 1753
                                                                                                                                                                                    996
                                                                                                                                                                                                                     1041
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1566
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1746
                                                                                                                                                                                                                                                                                                                    1086
                                                                                                                                                                                                                                                                                                                                                                                                                                                        1206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1626
                                                                                                                                                                                                                                                                                                                                                                                      1146
                                                                                                                                                                                                                                                                                                                                                                                                                       1221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1506
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1686
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1818
                                                     849
                                                                                                                    606
                    861
                                                                               g
                                                                                                                                                 쉽
                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                  ŝ
                                                                                                                                                                                δ
                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠ
```

US-09-270-767-14715 Sequence 14715, Application US/09270767 Patent No. 6703491 GENERAL INFORMATION:

```
GENERAL INFORMATION:

APPLICANT: Keith Weinstock et al

APPLICANT: Keith Weinstock et al

TITLE OF INVENTION: NUCLBIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN

TITLE OF INVENTION: POR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196-132

CURRENT APPLICATION NUMBER: US/09/248,796A

CURRENT FILING DATE: 1999-02-12

PRIOR APPLICATION NUMBER: US 60/074,725

PRIOR APPLICATION NUMBER: US 60/074,725

PRIOR APPLICATION NUMBER: US 60/096,409

PRIOR FILING DATE: 1998-08-13

PRIOR FILING DATE: 1998-08-13

SEQ ID NO 62 SEQ ID NOS: 28208

LENGTH: 726
                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                772 ccaaárcegrearchiceargaicacchigeággagagagagagagagagatheaccháig 831
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCATAAAAATCATTACTGGTACCAGATGTACATAGATGATTACCAATATGGGGTATTG 407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     891
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TIGGIGAGGCIGAIGAAAIGGAGAAGAITACIAICTIIGGACCIATAAAAAACTIGAAA 467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   712 cecrechadanercangerégagricagique par candargagricangage de 771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Drosophila melanogaster
                                                                                                                                                                                                                                                                                                                                                                                                                   TGCCCCGGACCCGGGCGGACGACCACGTATCAAGATAAAGAGGAAGTTGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         rececritricagresceanangrecresinareceneraciaecanongenes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CACTTCAAGGGGTTGAATTGGAATTTAGTGGTCTGGATATTAAAATTTAAAGATGATGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TATGGATGAATACTGTTGGGCCCTACCATAATCGTCAAGAAACATATAAGTACTTTTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      832 ccercaacaacaacracracraccaaarcracarccariccariccacracccarrrcccaaaaac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTCCATTCTGTGTGGGGTCAAAAAAGTATCAGTCATTACCATGAAACTCTGGGAGAAG
                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 132.8; DB 3; Length 726;
                                                                                                                                                                                                                                                                                                                      Length 995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TAGGTTTTAATGGAAATCGAATTGTTGATGTTAATCTAACTA 509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCGCCTACAATGGCCAGCAAATCGTGGATATCACCCTGACCA
                                                                                                                                                                                                                                                                                                                   Score 161.2; DB 3;
Pred. No. 3.1e-32;
0; Mismatches 188;
                         늉
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of the REREMENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 6208, Application US/09248796A
Patent No. 6747137
                                                                                                                                                                                                                      i. TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-14715
                                                                                                                                                                                                                                                                                                                 Query Match 8.8%;
Best Local Similarity 59.3%;
Matches 274; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA ORGANISM: Candida albicans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-248-796A-6208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-248-796A-6208
                                                                                                                                                                     SEQ ID NO 14715
LENGTH: 995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        108
                                                                                                                                                                                                                                                                                                                                                                                                                     48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      652
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
```

```
1090
                                                                                                                                                                                                                                                 1210
                                                                                                                                                     TGTGGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATT 1150
                                                                                                                                                                                                                                                                                                                                                                                                                            AATGCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTT 1330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACG 1390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATC 1450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CIGIGCATTGIGACTGICTGIGACTATTGIGTGCACATATTTTCTACTAAATGCAGAA 1510
                                                                                                                                                                                                                                                                                                                                     CTIGITGGIACAATACTIGGCCGAAATCTGICAGGICAGCCCAACTITCCTIGICGIGIC 1270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATGTATTCCTTTTACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCA 1630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1691 GGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTAG 1750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTAC 1570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        73 referegerirricarieraritaaritreritraaritreagracaarerieregegerarit 132
                                                                                                                                                                                                                                                                                           CATATGGGGACAATGTTTGCCATTGTCTTAATTTGGTTCATTATATCGATTCCATTAAGT 192
                                                                                                                                                                                                                                                                                                                                                                               193 GTTATTGGATCAATTTTAGCTAGTAATAGACCATTATTATC---GGTACCAGTGAGAACT 249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AATCAAATTCCAAGACAAATTCCTACTCAACCATGGTATTTAAGTACTATCCCGGTAATG 309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTTATTTCGGGAATTTTCCCATTTGGATCAATTGCTGTGGAAATGTATTTTATTCA 369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            370 ICAATITIGGITITAATAAGAITITITIATATAIGAATITITITATITITICIGITICATATIA 429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            430 AİGATTTİAACTAĞTAĞTTAATTAĞTAİTTİAATĞATTİATTATAĞTTİATĞTTĞAĞAA 489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   490 AATTATAAATGGCAATGGAATCATTATTTGGTGGAGGGTTGTGCAATTTATGTATTT 549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTCATTCATTTTTTTGACTGGTGGTGA---AAAATTTGGTGGATTTAGTTCATTAGTT 606
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTATACAGTGGTTATTCAGCTGTGATTTCATTATTAGTTTTCCTTTGTTGTGGATCAATT 666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGATTTATTAGTAGTTTAATATTTGTCAGATTAATTTATGGTCAAATTAAAATTGATTAG 726
                                                                                                              72
                                                                 GGAGGAAGGAGATGGATAAAGCAGATGTTTATTTGGGGCATTCCTTATCCCAGCTATGGTG
                                                                                                                                                                                                                                              13 GGTGGTGACAATTGGAAATTGAATATGTTTTTGACACCAGGTTTTAGTACCAGGGATTTTG
                         Gape
                         ..
  Pred. No. 8e-25;
0; Mismatches 347; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 2292, Application US/09313294A
Best Local Similarity 51.0%;
Matches 367; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Patent No. 6476212
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JS-09-313-294A-2292
                                                                                                                                                                                                                                              1151
                                                                                                                                                                                                                                                                                                                                     1211
                                                                                                                                                                                                                                                                                                                                                                                                                              1271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                607
                                                                                                                                                                                                                                                                                         133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           667
                                                                 ઠે
                                                                                                  g
                                                                                                                                                     ò
                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                         a
                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                               유
                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
```

```
RESULT 15
US-09-313-294A-2292
US-09-313-294A-2292

Squence 2292, Application US/09313294A

Patent No. 6476212
GENERAL INFORMATION:
APPLICANT: Lalgudi, Raghunath V.
APPLICANT: Lalgudi, Raghunath V.
APPLICANT: Lalgudi, Raghunath V.
APPLICANT: Lalgudi, Raghunath V.
APPLICANT: Berman, Bradley K.
TITLE OF INVENTION: POLYNGCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR.
FILE REPERRNCE: PL-0017 US/09/313,294A
CURRENT APPLICATION NUMBER: US/09/313,294A
CURRENT PILING DATE: 1999-05-14
SCOURENT APPLICATION NOWER: 1999-05-14
SCOURENT FILE PROGRAM
SOCTAMER: PERL PROGRAM
SCOUR NO 2292
LENGTH: 262
TYPE: DNA
CRGANISM: Zea mays
FEATURE:
RAMEKEY: misc feature
CHER INFORMATĪON: Incyte ID NO. 6476212 700552439H1
```

```
GGACAAGTITICTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACT 1586
                                                                                                                                                                                                                                                                                                                   1587 ACTATTTTTCAAAACAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATA 1646
                                                                                                                                                                                                                                                                                                                                                           159 acraccarcreaagacaaagargreaggerrerrecagacaagrrrerarrreggeraca 218
                                                                                                                                                                               98
                                                                                                                               1467 TCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAAT
                                                                                                                                                              39 TCTGCGTCACTATTGTGGGGTACTTATTTCTTGCTGAACGCCGAGAACTACCATTGGCAAT
                                                                                                                                                                                                                                                                 GGACGTCGTTTTCTTCTGCAGCGTCAACCGCTCTGTACGTGTATCTGTACTCCATCTACT
                                                                                       Gaps
                                                                                       1;
                                        ; DB 3; Length 262; 1.2e-16;
                                                                                                                                                                                                                                                                                                                                                                                                        1647 TGGCGGTATTTAGCACACCCTTGGGGATAATGTGTGGAGCGATTG 1691
                                                                                                                                                                                                                                                                                                                                                                                                                                                     219 cécréarerrec-créecrasécaracriréréasécrarie 262
                                                                                       70; Indels
                                                                                     0; Mismatches
                                        Score 101;
Pred. No. 1
                                          5.5%;
                                     Query Match
Best Local Similarity 68.4
Matches 154; Conservative
US-09-313-294A-2292
                                                                                                                                                                                                                         1527
                                                                                                                                                                                                                                                                    66
                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                         ਨੇ
                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                           쉽
```

Search completed: March 10, 2006, 21:55:59 Job time : 316.887 secs us-10-755-466-3.rnpbm

```
61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                              March 10, 2006, 21:56:09; Search time 1498.99 Seconds (without alignments) 10078.870 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 3, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 335, App
Sequence 1697, Ap
Sequence 1414, Ap
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 22277,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                              1 agetteccaccatggcggccg..........cacagcaaaaacaaacaaac 1827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 13
Sequence 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence Sequence Sequence 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence Sequence 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | cgn2_6/ptodata/1/pubpna/US07_puBCOMB.seq:*
| cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
| cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq:*
| cgn2_6/ptodata/1/pubpna/US099_PUBCOMB.seq:*
| cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
| cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
| cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
| cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
| cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
| cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
| cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
| cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
| cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5-115-140808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-277-802-29
US-10-896-972-29
US-10-205-219-122
US-10-956-157-2297
US-10-287-436A-335
US-10-062-674-1697
US-10-062-674-1697
                                                                                                                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5-582-13
                                                                                                                                                                                                                                                                                                                            9793542 seqs, 4134689005 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JS-10-896-972-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Published_Applications_NA_Main:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Listing first 45 summaries
                                                                            OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                  IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Post-processing: Minimum Match 0% Maximum Match 100%
                                                                                                                                                                                                                                                                                                                                                                                                           Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                      US-10-755-466-3
1827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length DB
                                                                                                                                                                                                              Perfect score:
                                                                                                                                                                                                                                                                    Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1814
1804.4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         583.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1725.
1725.
1024.
726.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   629.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1804.
                                                                                                                                                                                                                                  Sequence:
                                                                                                                                                                                                                                                                                                                              Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Database
                                                                                                                  Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Result
No.
```

22276, A	12720, A	26742, A	101961,	2630, Ap	2630, Ap	21677, A	887, App	1419, Ap	658, App	3956, Ap	1724, Ap	11907, A	445, App	133, App		388, App	21679, A	103451,	16392, A	11456, A	3365, Ap
Sequence 22276,	Sequence 12720,	Sequence	Seguence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Seguence	Sequence	Sequence	Seguence	Sequence	Seguence	Seguence	Sequence	Sequence	Seguence	Sequence	Sequence
US-11-097-143-22276	US-10-767-701-12720	US-10-425-114-26742	US-10-425-115-101961	US-10-242-535A-2630	US-10-085-783A-2630	US-10-425-115-21677	US-10-287-436A-887	US-10-287-436A-1419	US-10-437-963-658	US-09-918-995-3956	US-09-969-034-1724	US-10-779-543-11907	US-10-062-674-445	US-10-002-631C-133	US-10-002-631C-134	US-10-333-184-388	US-10-425-115-21679	US-10-424-599-103451	US-10-425-114-16392	US-10-198-846-11456	US-10-021-323-3365
9	7	7	œ	7	7	8	σ	o	7	ო	m	σ	9	ø	9	7	80	,	~	Ŋ	7
4169	2152	2039	2068	260	560	1535	545	545	2316	419	497	418	459	455	455	731	2032	2748	1033	529	.009
30.8	30.8	30.0	30.0	29.4	29.4	26.0	25.9	25.9	25.4	22.8	22.4	22.4	22.2	20.0	20.0	16.5	16.5	16.2	16.1	15.0	14.4
563.6	562.4	547.4	547.4	537.8	537.8	474.6	473.2	473.2	464.8	416.4	409.6	409.4	406.2	365.6	365.6	300.8	300.8	296.4	294.8	273.8	262.6
24	25	56	27	28	53	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
o							υ	υ		υ			υ								

## ALIGNMENTS

```
APPLICANT: HIDAKA, Jun et al.
APPLICANT: HIDAKA, Jun et al.
TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L.
TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
TITLE OF INVENTION: DATE: 10020-4827P
CURRENT PELLING NUMBER: US/10/755,466
CURRENT PAPLICATION NUMBER: US/09/786,681
PRIOR FILING DATE: 2004-01-13
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PATENTIN VETSION 3.0
SEQ ID NO SEQ ID NOS: 7
SOFTWARE: PATENTIN VETSION 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 GGCGGACGAGCACGACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATAC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121 TGTTGGGCCCTACCATAATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGT 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181 eccencialala a de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra del contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra del la contra del la contra del la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra del la contra del la contra de la contra de la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181 GGGGTCAAAAAAAAAGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 AGCTTCCACCATGGCGGCCGCGCGCTGTGGCTGCTGCTGCTGCTGCTGCCCCCGGACCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGTTGGGCCCTACCATAATCGTCAAGAACATATAAGTACTTTTCACTTCCATTCTGTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 AGCTTCCACCATGGCGGCCGCCGCGCTGTGGTGCTGCTGCTGCTGCTGCCCCCGGACCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 8; Length 1827;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
100.0%; Score 1827;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1827; Conservative 0; Mismatches
Sequence 3, Application US/10755466
Publication No. US20040265854A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; NAME/KEY: CDS
; LOCATION: (11)..(1747)
US-10-755-466-3
```

~

g

 8 8 8 8 8

ò

8 8

```
1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1501 AAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAAT
                                                                                                                                                                                                                                                                                                          1621 TCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACCAGCCTTGGGGATAATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1741 AATTGACTAGAGACCCAAGAAACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTG
                                             1381 CAICTICACGICTTICTGGGGGAIATAAGAICTATTATGICTATGGCTTCATGATGGTGGT
                                                                                                                                                     1441 GCTGGTTATCCTGTGCATTGTGACTGTCTGTGACTATTGTGTGCACATATTTCTACT
                                                                                                                                                                                                                                                                                                                                                                       TCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGGATAATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGGAGCGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1681 TGGAGCGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAA
                                                                                                                                                                                              1501 AAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAAT
                                                                                                                                                                                                                                                                                   CTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KESULI: A

US-09-814-353-21837

US-09-814-353-21837

Sequence 21837, Application US/09814353

Sequence 21837, Application US/09814353

Sequence 21837, Application US US-03-8181

SEGUENCAL INFORMATION: DESCRIPTION: Thompson, Pamela APPLICANT: Lillie, James APPLICANT: Lillie, James TTTLE OF INVENTION: DENTIFICATION, ASSESSMENT, PREVENTION, AND TITLE OF INVENTION: THERETY OF COVARIAN CANCER FILE REFERENCE: MRI-006B

TITLE OF INVENTION: THERETY OF COVARIAN CANCER FILE REFERENCE: MRI-006B

CURRENT PILLING DATE: 2000-03-21

PRIOR APPLICATION NUMBER: US 60/191,031

PRIOR PILLING DATE: 2000-05-25

PRIOR PILLING DATE: 2000-05-25

PRIOR PILLING DATE: 2000-05-25

PRIOR PILLING DATE: 2000-05-25

PRIOR PILLING DATE: 2000-05-25

PRIOR APPLICATION NUMBER: US 60/216,820

PRIOR PILLING DATE: 2000-07-07

PRIOR PILLING DATE: 2000-07-07

PRIOR APPLICATION NUMBER: US 60/257,672

PRIOR APPLICATION NUMBER: US 60/257,672

PRIOR APPLICATION NUMBER: US 60/257,672

PRIOR APPLICATION NUMBER: US 60/257,672

PRIOR APPLICATION NUMBER: US 60/257,672

PRIOR APPLICATION NUMBER: US 60/257,672

PRIOR APPLICATION NUMBER: US 60/257,672

PRIOR APPLICATION NUMBER: US 60/257,672

PRIOR APPLICATION NUMBER: US 60/257,672

PRIOR APPLICATION NUMBER: US 60/257,672

PRIOR APPLICATION NUMBER: US 60/257,672

PRIOR APPLICATION NUMBER: US 60/257,672

PRIOR APPLICATION NUMBER: US 60/257,672

PRIOR APPLICATION NUMBER: US 60/257,672

PRIOR PRIOR PRIOR DATE: 2000-07-07

PRIOR APPLICATION NUMBER: US 60/257,672

PRIOR APPLICATION NUMBER: US 60/257,672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 3; Length 3508;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             99.4%; Score 1816.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GAACTIGCACAGCAAAACAAACAAAC 1827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1801 GAACTTGCACAGCAAAACAAACAAAC 1827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: misc_feature
LOCATION: 1, 2, 3506, 3507, 3508
OTHER INFORMATION: n = A,T,C or '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-814-353-21837
                                                                                                           1441
                                                                                                                                                                                                                                                                                                                                                                     1621
                         1381
                                                                                                                                                                                                                                                                                   1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                            1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                       ò
                                                                                                                                           요
                                                                                                                                                                                                                            윱
                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                    ద
                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGCTATGGTGTGGCACTGCCTTCTTCATCATTCATAGCCATTTATTACCATGCTTC 1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         961 AGCCATATTTGFCTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTA 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1021 TGCTAGACAAGGAAGGAGGATGGATAAAAGCAGATGTTTATTGGGGCATTCCTTATCCC 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCCTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCC 1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TIGICGIGICAAIGCTGIGCCTCGICCTATACCGGAGAAAAAIGGITCAIGGGGCGGC 1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       960
                                                                                                                                420
                                                                                                                                                                                                                  480
                                                                                                                                                                                                                                                                                                          540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCCACTGATATTTTCCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTAT 900
                                           360
                                                                                    360
                                                                                                                                                                       420
                                                                                                                                                                                                                                            540
                                                                                                                                                                                                                                                                                                                                                                                            900
                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             840
TTACTGGTACCAGATGTACATGATGATTTACCAATATGGGGTATTGTTGTTGTTGTTGAGGCTGA
                                                                                                                                                                                                                                                                                                                                                                                            TAAAATCCAGATGTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                   541 TAAAATCCAGATGTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTAAGAAAAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCTAGGAGATATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCCACTGATATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATTTTGCTGTGTCTCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCCTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCC
                                         CTGTGAAATTGATTAGATAAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAATCA
                                                                                                                              TTACTGGTACCAGATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGA
                                                                                                                                                                                                                TGAAAATGGAGAAGATTACTATCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGG
                                                                                                                                                                                                                                                                                                          AAATCGAATTGTTGATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATAC
                                                                                                                                                                                                                                                                                                                                ABATCGAATTGTTGATGTTAATCTAACTAGTGAAGGAAAGGGAAAACTGGTTCCAAATAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTTGACAAATAICTTGAICCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTTGACAAATATCTTGATCCGTCCTTTTTTTCAACATCGGATTCATTGGTTTTCAATTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAACTCCTTCATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTAATGAGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTAAGAAAAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAAGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCTAGGAGATGAATATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CGTTATTATTGTTGCAATGATAGAAGATTTATATATACTGAGAGGGGATCAATGCTCAGTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGCCATATTTGTCTATGCTGCTACGTCTCCCAGTGAATGGTTATTTTGGAGGAAGTCTGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGCTAGACAAGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1141
                                         301
                                                                                                                              361
                                                                                                                                                                       361
                                                                                                                                                                                                                421
                                                                                                                                                                                                                                                         421
                                                                                                                                                                                                                                                                                                       481
                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                                                            541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          661
```

8 셤 ò 요 8 셤 ઠે 셤 ઠે 셤 ਨੇ В ∂ 요 ઠે අ ઠે

696

1125 1149 1185 1245 1269 1305 1329 1365

us-10-755-466-3.rnpbm

```
CATGIATTCCTTTTACTACTATTTTTTCAAACAAAGAIGTATGGCTTATTTCAAACATC 1665
                                                                                                                                                                                                                                                                                                                                                                                    TIGCCIGGGIGGAAITITACCITITGGITCAAICITTATIGAAAIGIAITITCAICITCAC 1389
 886 ATTITCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTAT 945
                                       946 TGTTGCAATGAAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCCATATT
                                                                          TGTCTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACA
                                                                                         AGGAGGAAGGAAGGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGT
                                                                                                                                                                                           GTGTGGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCAT
                                                                                                                                                                                                                            TCCTTTTGGAACAAIGGTGGCCGTTTGTTGCATCTTTTTTTTTGTTATTCTTCCTCTAAA
                                                                                                                                                                                                                                                        rccriringaacaangergeccerrigingeacarcrerriringtraticurccrcraaa
                                                                                                                                                                                                                                                                                           1246 TCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGGCCCAACTTTCCTTGTCGTGT
                                                                                                                                                                                                                                                                                                                                               CAATGCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGT
                                                                                                                                                                                                                                                                                                                                                                                                TIGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCTGTGCATTGTGACTGTCTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTCTACTAAATGCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTITACTITICGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GAGACCCAAGAAAACCTGGAACTTTGGATCAATTTCTTTTCATAGGGGTGGAACTTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGGAGGAAGGAGATGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGT
                                                                                                                                                                              GIGIGGCACTGCCTTCTTCATTTCATAGCCATTTATTACCATGCTTCAAGAGCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                     GICTITICIGGGCATATAAGATCTATTATGTCTATGCCTTCATGATGCTGGTGCTGGTTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CATGIATICCTITITACIACIATITITICAAAACAAAGAIGIATGGCTITATITCAAACAIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGGTTACATGGGAACAAGTGCCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACTA
                                                                                                                                                                                                                                                                                TCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCCAACTTTCCTTGTCGTGT
                                                                                                                                                                                                                                                                                                                                 CAATGCTGTGCCTCGTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1, Application US/10755466; Publication No. US20040265854A1; GENERAL INFORMATION: APPLICANT: HIDAKA, Jun et al.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAGCAAAACAAACAAAC 1827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-755-466-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1606
                                                                                                   9001
                                                                                                                             1030
                                                                                                                                                      1066
                                                                                                                                                                              1090
                                                                                                                                                                                                      1126
                                                                                                                                                                                                                               1150
                                                                                                                                                                                                                                                        1186
                                                                                                                                                                                                                                                                                  1210
                                                                                                                                                                                                                                                                                                                                   1270
                                                                                                                                                                                                                                                                                                                                                            1306
                                                                                                                                                                                                                                                                                                                                                                                     1330
                                                                                                                                                                                                                                                                                                                                                                                                            1366
                                                                                                                                                                                                                                                                                                                                                                                                                                       1390
                                                                                                                                                                                                                                                                                                                                                                                                                                                             1426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1726
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1810
                                                                           970
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1846
                           910
                                                                                                                                                유
                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                           셤
                                                                      8 6
                                                                                                                          ઠે
                                                                                                                                                                              ઠે
                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             名
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  . <u>අ</u>
                   ठ
                                                                                                                                                                   ö
                                                                                                                                                                                                                                           129
                                                                                                                                                                                                                                                                                                                                                                                                                                                  369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      825
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGAATATGGAAGGAAGGGGCGTGGAGGATGTATTTAGACCATCAAGTCACCCACTGAT 849
                                                                                                                                                                                                           GCACGAACACACATACAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGC 165
                                                                                                                                                                                                                                                                                                            CTACCATAATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAA 225
                                                                                                                                                                                                                                                                                                                                                249
                                                                                                                                                                                                                                                                                                                                                             345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    466 AGAAGATTACTATTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAAT 525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GATGTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAA 645
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  705
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAA 729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTTCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTAT 909
                                                                                                                                                                                                                                                                                             CTACCATAATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAA 189
                                                                                                                                                                                                                                                                                                                                                                                                 GATGTCATATTCAGTAAAATGGAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAA 609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGA 789
                                                                                                                                                                                            69
                                                                                                                                                                                                                                                                                                                                                                                                                406 CCAGATGTACATAGATGATTACCAATATGGGGTATTGTTGTGAGGCTGATGAAATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCACGAACACGCTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                  310 TGATTTAGATAAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                346 TGATTTAGATAAAGAAAAGAGATGCATTTGTATATGCCATAAAAATCATTACTGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCAGATGTACATAGATGATTTACCAATATGGGGGTATTGTTGGTGAGGCTGATGAAAATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGAAGATTACTATCTTTGGACCTATAAAAACTTGAAATAGGTTTTAATGGAAATCGAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATATCTTGATCCGTCCTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTT
                                                                                                                                                                                                                                                                                                                                                AAAAAGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGA
                                                                                                                                                                  Gaps
                                                                                                                                           Length 4024;
                                                                                                                                                                   ;
0
                                                                                                                                                                  Indels
                                                                                                                                          5
                                                                                                                                                                  ä
                                                                                                                                          8
                                                                                                                                         Score 1816.4;
Pred. No. 0;
0; Mismatches
software: FastsEQ for Windows Version 4.0 isEQ ID NO 10005
LENGTH: 4024
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1, 2, 4021, 4022, 4023, US-10-198-846-10005
                                                                                                                                                                  ;
                                                                                                                                          99.4%;
                                                                                                                                                                  Conservative
                                                                                                                                                      Similarity
                                                                                                                                                                  Matches 1817;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            670
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               730
                                                                                                                                                                                           10
                                                                                                                                                                                                                                                                                                                                                                                                                           286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      904
                                                                                                                                         Query Match
Best Local
                                                                                                                                                                                                                  46
                                                                                                                                                                                                                                           70
                                                                                                                                                                                                                                                                    901
                                                                                                                                                                                                                                                                                             130
                                                                                                                                                                                                                                                                                                                        991
                                                                                                                                                                                                                                                                                                                                                190
                                                                                                                                                                                                                                                                                                                                                                         226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   646
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         826
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   850
                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                   유
                                                                                                                                                                                                                                                                                       › · 요
                                                                                                                                                                                                                                                                                                                                                                                                                    Ŗ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               원 상
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                             े
```

1449

1485

1689

1749

1845

794 841 854 901 914 961 1021	1034   GGAAGGAGATGGATAAAGCAGATGTTTATTATTACCATGCTTATCGTGTGTT   1140   1094   GGAAGGAGATGGATGTTTATTATTATTACCATGCTTTGTTGTTTT   1140   1141   GGCACTGCTTCTTCATCATTTCATAGCCATTTCTTATTACTTCCATGATTTCTTTC	QY         1214 GITGGTACATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAAT 1273           Db         1261 GITGGTACAATACTTGGCGAAATCTGTCAGGTCACTTTCCTTGTCGTGTCAAT 1320           QY         1274 GCTGTGCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 1333           Db         1321 GCTGTGCTCGTCCTTACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGC 1380           QY         1334 CTGGGCTGCTCTTTGGTTCAAACTTTATTGAAATGTATTTCATCTTCACGTCT 1393	1381 CTGGGTGGAAITTTACCTTTTGGTTCAATCTTTATGAAATGTATTCATCTTCACGTCT 144  1394 TTCTGGGCATATAAGATCTATTAGCTTATGGCTTCATGATGTTTCATCTG 145  1441 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGCTGTTATCCTG 145  1441 TTCTGGGCATATTAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTG 150  1454 TGCATTGTGACTGTTGTGTGTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 151  1501 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGAT 156	0.5	Oy 1694 TACATGGGAACAAGTGCCTTTGTCCGAAAATCTATACTAATGTGAAAATTGACTAGAGA 1753
TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I TITLE OP INVENTION: BINDING ACTIVITIES, AND THEIR USES FILE REPERENCE: 0020-48372. CURRENT APPLICATION NUMBER: US/10/755,466 CURRENT FILING DATE: 2004-01-13 PRIOR PILING DATE: 2004-01-430 NUMBER OF SEQ ID NOS: 7 SOFTWARE: PATENTING DATE: 2001-04-30 NUMBER OF SEQ ID NOS: 7 SOFTWARE: PATENTING DATE: 2002 TYPE: DNA CRANISM: Home sapiens FEATURE: NAME/KEX: CDS LOCATION: (49)(1794)	Query Match         99.3%;         Score 1814;         DB 8;         Length 2072;           Best Local Similarity 100.0%;         Pred. No. 0;         0         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;         0;	121 GAACACACGTATCAAGATAAAGAGAAGTTGTCTTATGGATGATACTGTTGGGCCCTAC 180  134 CATAATCGTCAAGAAACATATAAGTACTTTTCACTTCATCTGTGTGGGGCTCAAAAAA 193  181 CATAATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAA 240  194 AGTATCAGTCATTACCATGAAACTTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTT 253  194 AGTATCAGTCATTACCATGAAACTTGGGAGAAACATTCAAGGGGTTGAATTGGAATTT 300  241 AGTATCAGTCATTACCATGAAACTTGGGAGAAAGCACTTCAAGGGGGTTGAATTGGAATTT 300	254	434 481 494 541 554	601 TCATATTCAGTAAAAGTCAGATGTGAAATTTGAAGATTGACAAATAT 660  614 CTTGATCCGTCCTTTTTCAACATCGGATTCATTGATTTGACTTTGACAATAT 660  614 CTTGATCCGTCCTTTTTTCACATCGGATTCATTGTTTTCAATTTTCAACTCCTTCATG 673  614 CTTGATCCGTCCTTTTTTCACATCGGATTCATTGTTTTCAATTTTCAACTCCTTCATG 720  674 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 733  721 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGAT 780  734 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATTTTAATGAGTAGAGACCTTAGAAAAGAT 793  734 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 793  781 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 840

8 6 6 6 6 6

6 8 6 8 6 8 6 8 6

8 6 8

දි දි

φ

720

801

681

840

921

us-10-755-466-3.rnpbm

```
GTACAGTAAAGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGATGGTG
                                                                                                                                                                                                                                                                                                                                     841 GATTGGTTCTGGATGTCAGATATTTGCTGTGTTCTCTCATCGTTATTGTTGTTGCAATGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1042 ATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGGCACTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1441 GACTGTCTGTGTGTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCCGTG
                                                                    GTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGAT
                                                                                                                                     661 CTTCTTGGTGGGCCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCG
                                                                                                                                                                                                   781 GAAACAGGTGCATGGATGTATTTAGACCATCAAGTCACCCCACTGATATTTTCCTCT
                                                                                                                                                                                                                                                                                                                                                                                      AGAAGATTTATATATACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                        901 AGAAGATTTATATATACTGAGAGGGATCAATGCTCAGTACACGCATATTTGTCTATGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                       1201 AATACTIGGCCGAAAICTGICAGGICAGCCCAACTIICCTIGICGIGICAATGCTGIGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1261 TCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1402 AIAIAAGAICTAITAIGICTAIGGCITCAIGAIGCTGCIGCTGCIGCTAICCTGIGCAITGI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1501 GCAATGGACAAGTTTTCTCTCTGCTGCAACTGCAATCTATGTTTACATGTATTCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATATATGGGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGGGTTTGGTTACATGGG
                                                                                                                  CTTCTTGGTGGCCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1342 AATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1321 AATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTTCATCTTCACGTCTTTTTGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1462 GACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1582 TIACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1561 TTACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGG
                                                                                                                                                                                                                                                    GAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCT
                                                                                                                                                                                                                                                                                                                       GATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCTCATCGTTATTATTGTTGCAATGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCC
                                                                                  601
                                                                                                                  682
                                                                                                                                                                                                                                                    802
                                                                                                                                                                                                                                                                                                                                                                                     922
                                                                                                                                                                                                                                                                                                                                                                                                                                                       982
                                                                                                                                                                                   742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1522
                                                   622
                                                                                                                                                                                                                                                                                                                     862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1642
                                                                                                                                                                                                                   요
                                                                           요
                                                                                                                  ઠે
                                                                                                                                           a
                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                 ठे
                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATAATCG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAGATAA 321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241 GGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAGATAA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGABABAGAGATGCATTTGTATATGCCATABABATCATTACTGGTACCAGATGTACAT 381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCTTTGGACCTATAAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATGTTAA 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTC 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CGCGCTGTGCTGCTGCTGCTGCTGCCCCCGGACCCGGGCGGACGACGACAACACAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCCTACCATAATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTGGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCATTACCATGAAACTCTGGGGGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTGGGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGATGATTTACCAATATGGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAGAAGATTACTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCTTTGGACCTATAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATGATAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           562 AGTAAAATGGAAAAAGTCAGATGTGAAATTTTGAAGATCGATTTTGACAAATATCTTGATCC
                                                                                                                                                                                                                                                                                                                                       ENCODING THEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 3370;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1; Indels
                                                                                                                                                                                                                                                                                                APPLICANT: Fechtel, Kim APPLICANT: Fechtel, Kim APPLICANT: Genetics Institute, Inc.
TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES PILE REPERENCE: G1 6075-83A
CURRENT PELLING NUMBER: US/09/374,046A
CURRENT FILING DATE: 1999-08-13
NUMBER OF SEQ ID NOS: 240
SOFTWARE: PECENTIN Ver. 2.0
SEQ ID NO 25
LENGTH: 3370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 1804.4; I
Pred. No. 0;
0; Mismatches
                                                                                           APPLICANT: Jacobs, Kenneth
APPLICANT: Jacobs, Kenneth
APPLICANT: Jacobs, John M.
APPLICANT: Lavalie, Edward R.
APPLICANT: Collins-Racie, Lisa A.
APPLICANT: Evans, Cheryl
APPLICANT: Merberg, David
APPLICANT: Treacy, Maurice
APPLICANT: Steininger II, Robert J.
APPLICANT: Steininger II, Robert J.
APPLICANT: Spaulding, Vikki
APPLICANT: Wong, Gordon G.
APPLICANT: Clark, Hilary
                                           Sequence 25, Application US/09374046A Publication No. US20030096951A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 99.9%;
Matches 1805; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; ORGANISM: Homo sapiens
US-09-374-046A-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        442
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
```

1080

1161

1101

1041

981 960 1020

1260

1341 1320 1401 1380 1461 1440

1281

1500

1581

1620

382 AGATGATTTACCAATATGGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGATTACTA 441 	442 TCTTTGGACCTATAAAAACTTGAÀATAGGTTTTAATGGAAATCGAATTGTTGATGTTAA 501 	502 TCTAACTAGTGAAGGAAAGGGTGCAAATACTAAAATCCAGATGTCATATTC 561 	562 agtaaatggaaaaagtcagatgtgaaatttgaagatcgatttgacaatatcttgatcc 621 	622 GICCITITITICAACAICGGAITCAITIGGTITITCAAITITICAACICCITCAIGAIGGIGAI 681 	682 CTTCTTGGTGGGCTTAGTTTTCAATGATTTTTAATGAGAACATTAAGAAAAGATTATGGTCG 741 	742 GIACAGIAAAGAGGAAGAATGGATGATATGGATAGAGACCTAGGAQATGAATATGGATG 801 	802 GAAACAGGTGCATGGAGATGTATTTAGACCATCAGTCACCCCACTGATATTTCCTCTCT 861 	862 GATTGGTTCTGGATGTCGGATATTTGCTGTGTCTCTCTCATCGTTATTGTTGCTGCAATGAT 921 	922 AGAAGAITTATATACTGAGAGGGAFCAATGCTCACTACAGCCATAITTGTCTATGCTGC 981 	982 TACGICTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAGGAG 1041 	AIGGATAAAGCAGATGTTTATIGGGGCATICCTTATCCCAGCTAIGGTGTGTGGCACTGC 11		AATGGTGCCCGTTGTTGCATCTGTTTTTTGTTATTTTTCCTCTCAAATCTTGTTACTAC 12	ANTACTICGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTCGTGTCGTGTCAGGTCGTGTCGTGTCGTGTCGTGTCGTGTCGTGTCGTGTCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	13	1 AAITITAGCITITAGGITCAAICITTATIGAAAIGTATITCATCITCACGICITICIGGGC 13	
& €	λο da	& a	ζς qα	& A	λο qa	& ga	ço qa	& q	ନ୍ଦ ଶ	& g	<i>ે</i> લ	à 8 á	S & &	. B 5	5 B 6	S 8 8	3 옵 
DD	1762 AACCTGGAACTTTGGATCAATTTCTTTTTGATAGGGGTGGAACTTGCACGAAAACAA 182	1822 ACAAC 1827	DD 1801 ACAAAC 1806 RESULT 6	US-10-616-263-25 ; Sequence 25, Application US/10616263 ; Publication No. US20040038276A1 ; GENERAL INFORMATION:		Evans, Cheryl Merberg, David Treacy, Maurice Agostino, Michael J.		APPLICANT: Fechtel, Xim APPLICANT: Genetics Institute, Inc. ITILE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM FILE REPERENCE: 00766.000103.5	8833	; SEQ ID NO 25 ; TYPE: DNA ; TYPE: DNA ; ORGANISM: Homo sapiens	OS-10-515-25 Query Match Best Local Similarity 99.9%; Pred. No. 0; Matches 1805; Conservative 0; Mismatches 1; Indels 0; Gaps 0;	acctgractactactactactactactaccccaacccaac	Oy 82 GTATCAAGATAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATAATGG 141	Qy     142 TCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGTCAAAAAAAA	Oy 202 TCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGAATTTAGTGGTCT 261	Oy 262 GGATATTAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTAGATAA 321 	Qy 322 AGAAAAGAGAGATTTGTATATGCCATAAAAATCATTACTGGTACCAGATGTACAT 381 

us-10-755-466-3.rnpbm

8 6 8

8 & B &

රු පු

133	ACTCTGGGGGGAAGCACTTCAAGGGGTTGAATTTAGTGGTCTGGGTATTTAATTT	Qy 275 AAAGATGATGCCAGCCACTTACTGTGAAATTGATTTAGATAAAGAAAAGAGAGAT 334	335		Db 373 ATATGGGGTATTGTTGGTGAGGCTGATGAAATGGAGAAGTTACTATCTTTGGACCTAT 432 Ov 455 AAAAAACTTGAAATAGTTTAATGGAAATGGAATTGTTGATGTTAATCTAACTAGTGAA	433 AAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATGTTAATCTAACTAGTGAA	Oy 515 GGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAA 574	Oy 575 AAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCGTCCTTTTTTCAA 634	Qy         635         CATCGGATTCATTGGTTTTCAACTTCTTCAACTCCTTCATGATGGTGGGC         694           Db         613         CATCGGATTCATTGGTTTTTATCAACTCCTTCATGATGTTCTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT	695 TTAGTITCAATGATTITAATGAGAACATTAAGAAAAGATTATGCTCGGTACAGTAAAGAG 	755		Qy 875 TGTCAGATATTTGCTGTCTCTCATCGTTATTATTGTTGCAATGATAGAAGATTTATAT 934	Oy 935 ACTGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCTACGTCTCCCAGTG 994	Qy 995 AATGGTTATTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGA		OY 1115 TTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTT 1174	OY 1175 IGITGCALCTGITITIGITACTICCTCTAAATCITGTIGGTACAATACTIGGCCGA 123- 	Qy 1235 AATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCATGCTGGCCTCGTCCTATACCG 1294
1462 GACTGTCTGTGTGACTATTGTGGCACATATTTTCTACTAAATGCAGAAGATTACCGGTG 1521	rccrr	1501 GAATGACAAGTTTTCTACTGCTGCATCAACTGCAATCTATTTACATGTTTACTTTCTTT	TTACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCTTTGG	1642 AIMTHIGGGGGTATTTAGCALAGCCTIGGGGATTGGTGGGGGGGGGGGGGGGGGGGGGGGG	1702 AACAAGTGCCTTTGFCCGAAAAATCTATACTAATGGAAAATTGACTAGAGACCCAAGAA 1761 	AACCTGGAACTTTGGATCAATTTCTTTTCATAGGGGTGGAACTTGCACAGCAAAAAAAA	1741 AACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAAACAA 1800 1822 ACAAAC 1827	1801 ACAAAC 1806	SULT 7 -09-915-582-29 Aguence 29, Application US/09915582 Parent No. US2002012010341	GENERAL INFORMATION: APPLICANT: Rosen et al. TITLE OF INVENTION: 17 Human Secreted Proteins FILE REPERENCE: 9972391	RENT APPLICATION NUMBER: US/09/915,582  RENT FILING DATE: 2001-07-27  COR APPLICATION NUMBER: PCT/US01/01431  COR APPLICATION DATE: 2001-01-17	PRIOR APPLICATION NUMBER: 60/179,065 PRIOR FILING DATE: 2000-01-31 PRIOR APPLICATION NUMBER: 60/180,628 PRIOR APPLING DATE: 2000-02-04	PRIOR APPLICATION NUMBER: 60/231,968 RICOR FILING DATE: 2000-09-12 NUMBER OF SEQ ID NOS: 97 SOFTWARE: PATENTIN VEr. 2.0	ENGY IN O 29 LENGTH: 3076 TYPE: DNA ORGANISM: Homo sapiens	FEATURE: NAME/KES: SITE LOCATION: (3064) OTHER INFORMATION: n equals a,t,g, or c	96.5%; Score 1763; DB 3; Length 3076; 98.8%; Pred. No. 0; 1. Nicmatches 18. Indels 0.	TACTECCCCGACCGGCGGACGACGACGACGCGTATCAAGATAAA 94	CIGCAGGIACCGGITCCGGAAIIICCCGGGITCGACGCGCACGCGAAGGIAIAAA GAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATAATCGTCAAGAAACATAT [	

6 B 6 B 6

35 CTGCTGCTGCTGCCCCGGACCCGGGCGGACGAACACACGTATCAAGATAAA 94  [		GCATTTGTATATGCCATAAAAATCATTACTGGTACCAGATGTACATAGATGTTTACCA GCATTTGTATATGCCATAAAAAATCATTACTGGTACCAGATGTACATAGATGTTTACCA GCATTTGTTAGCCATAAAAAATCATTACTGGTACCAGATGTACATAGATGATTTACCA ATATGGGGGTATTGTTGGTGAGGCTGTAGAAATGGAGAAGATTACTATTAGGACCTAT	373 ATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATTACTATCTTTGGACCTAT 432 455 AAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATGTTAATCTAACTAGTGAA 514 433 AAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATGTTAATCTAACTAGTGAA 492	515 GGBARGGTGRARACTGGTTCCRARTRCTARATTCCRGRTGTCATATTCRGTRARATGGRAR 574	575 AAGTCAGAIGIGAAAITIGAAGAICGAITIGACAAATAICTIGAICGGICCTITITICAA 634 	635 CAICGGAITCAITGGITITCAATITICAACICCTICAIGAIGGIGAICTICTIGGIGGGC 694	695 TTAGTITCAATGAITTTAATGAGAACALTAAGAAAAGAITATGCTCGGTACAGTAAAGAG 754 	755 GAAGAAATGGATGATAGAGACCTAGGAGATGAATATGGATGG	815 GGAGATGTATTAGACCATCAGTCACCCACTGATATTTTCCTCTGATTGGTTCTGGA 874	875 IGICAGATATITGCIGIGICTCTCAICGITATIGITGCAATGAIGAAGATITATAT 934 	935 ACTGAGAGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCTACGTCTCCAGTG 994	995 AATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGAAGGAGGAGATGGATAAAGCAG 1054 	1055 AIGTTATHGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCATCAT 1114
86866	3 4 8 6	8 6 6	a & a	& g	& A	& 8	& A	& a	S &	& 8	& A	\$ A	상 점 
Oy 1295 GAGAAAAATGGTTCATGGAGCCTGCGGTTATTGCTTTGCCTGGGTGGAATTTTACCTTTT 1354  Db 1273 GAGAAAAATGGTTCATGGAGCCTGCGGTTATTGCTTGCCTGGGTGGAATTTTACCTTTT 1332  Oy 1355 GGTTCAATCTTTATTGAAATTGATTTCATCTTCACGTCTTTCTGGGCATTTTACCTTTT 1332  Db 1333 GGTTCAATCTTTATTGAAATGTATTCATCTTCACGTCTTTCTGGGCATATAAGATCTAT 1392  Oy 1415 TATGTCTAATGGTTATTGAATGTTATTCACGTTATCTGGGCATATAAGATCTAT 1392  Oy 1415 TATGTCTAATGATGATGTGGTGGTGGTTATCCTGTGCATTGTGACTGTTGTGG 1474  Db 1393 TATGTCTAATGATCATGATGTGGTGGTTATCCTGTGCATTGTGACTGTTGTGTGTG	Qy         1475 ACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGT         1534           Db         1453 ACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGT         1512           Qy         1535 TTTCTCTCTGCTGCATCAATCTATTACATGTATTACTATTTACTACTATTTT         1594           CA         1512	1595 TTCAAACAAGGTTTGTGTGTGTGTGTGTTTGGTTTTGGTTTTGGTTTTT	Db   1633 TTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAAGACTTT 1692	OY 1775 GGATCAATTTCTTTTCATAGGGGTGGAACTTGCACAGCAAAACAAAC	RESULT 8 US-10-277-802-29	; Sequence 29, Application 05/02/1002; Sequence 29, Application No. US20030190707A1; GENERAL INFORMATION: , APPLICANT: Rosen et al.	; TITLE OF INVENTION: 17 Human Secreted Proteins; FILE REFERENCE: PS723P1; CURRENT PPLICATION WUMBER: US/10/277,802; CURRENT FILING DATE: 2002-10-23	; PRIOR APPLICATION NUMBER: 09/915,582 ; PRIOR FLING DATE: 2001-07-27 ; PRIOR APPLICATION NUMBER: PCT/US01/01431 ; PRIOR FILING DATE: 2001-01-17		; PRIOR APPLICATION NUMBER: 60/231,968 ; PRIOR FILING DATE: 2000-09-12 ; NUMBER OF SEQ ID NOS: 97 ; SOFTWARE: Patentin Ver. 2.0	; SEQ ID NO 29 ; LENGTH: 3076 ; TYPE: DNA ; ORGANISM: Homo mapiens	; FEATURE: ; NAME/KEY: SITE ; OTHER INFORMATION: n equals a,t,g, or c	96.5% 98.8% rvative

```
132
                                                                                                                                                                                                                                                                                                        432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    852
                                                                                                                                                                                                                                  154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              454
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             574
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               313 GCATTIGIATAIGCCATAAAAATCATTACTGGTACCAGAIGTACATAGATGATTTACCA 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         935 ACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCTACGTCTCCAGTG 994
                                                                                                                                                                                       13 CTGCAGGTACCGGTACTCGCGGGTCGACSCACGCGWCGCACGTATCAAAAA
                                                                                                                                                                                                                                                 73 GAGGAAGTTGTCTTATGGATGAATACTGTTGGGCCCTACCATAATCGTCAAGAAACATAT
                                                                                                                                                                                                                                                                                                                                                  GCATTTGTATATGCCATAAAAATCATTACTGGTACCAGATGTACATGATTTACCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           373 ATATGGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAAGATTACTATCGACGACCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 95 GAGGAAGTIGICITAIGGAIGAATACTGIIGGGCCCTACCAIAAICGTCAAGAAACATAI
                                                                                                                                                                                                                                                                                           275 AAAGATGATGTGATGCCAGCCACTTACTGTGAAATTGATTTAGATAAAGAAAAGAGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAAAAACTTGAAATAGGTTTTAATGGAAATCGAATTGTTGATGTTAATCTAACTAGTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             515 GGAAAGGTGAAACTGGTTCCAAATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATGATGGTGATCTTCTTGGTGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATAGAAGATTTATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            353 IGICAGATATITGCIGIGICICICATCGITATITATIGITGCAATGATAGAAGATITATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              395 ATATGGGGTATTGTTGGTGAGGCTGATGAAATGGAGAAGATTACTATCTTTGGACCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   575 AAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCCGTCCTTTTTTCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          613 CATCGGATTCATTGGTTTTTCAATTTTCAACTCCTTCATGATGGTGATCTTCTTGGTGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGA
                                                                                                                                                                        CTGCTGCTGCTGCCCCGGACCGGACGACGAGCACGAACACCACGTATCAAGATAAA
                                                                                                                                             Gaps
                                                                                                                                             ö
                                                                                                                Length 3076;
                                                                                                                                             18; Indels
                                                                                                                 8,
                                                                                                                 DΒ
                                                                                                              ; Score 1763; DB; Pred. No. 0; 3; Mismatches
                                                                          ö
; TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (3064)
COTHER INFORMATION: n equals a,t,9,
                                                                                                                Query Match
Best Local Similarity 98.8%;
Matches 1772; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      335
                                                                                                                                                                          35
                                                                                                                                                                                                                                                                                                                                                     215
                                                                                                                                                                                                                                                                                                                                                                                193
                                                                                                                                                                                                                                                                                                                                                                                                                                       253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              635
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                755
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          815
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        요
                                                                                                                                                                           ઠે
                                                                                                                                                                                                   g
                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                  ద
                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                         1234
                                                                                     1212
                                                                                                                 1294
                                                                                                                                                                                                                                  1414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1654
                              1152
                                                                                                                                 1:354
                                                                                                                                                                                      1273 GAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTT 1332
                                                                                                                                                                                                                                                                                        1453 ACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGT 1512
                                                                                                                                                                                                                                                                                                                                                                                                                                         1572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1714
                                                                                                                                                                                                                                                 1633 TTTAGCACACCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTT 1692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCAAGAAAACCTGGAACTTT 1752
                                                                                                                                                                                                                                                                                                                                                     ACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGT 1534
                                                                                                                                                                                                                                                                                                                                                                                                             TTTCTCTCTCTGCTGCATCAACTGCAATGTTTAACATGTATTCCTTTTACTACTATTTT 1594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTTACTTTGGATATATGGCGGTA 1632
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTCCGAAAAATCTATACTAATGTGAAAATTGACTAGAGACCCCAAGAAAACCTGGAACTTT 1774
   TTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTT
                                                                                                                                                                                                                                  GGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTAT
                  TTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTT
                                                                        TGTTGCATCTGTTTTTTTTGTTATTCTTCCTCTAAATCTTGTTGGTACAATACTTGCCCGA
                                                                                                                AATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCTCGTCCTATACCG
                                                                                                                                                                          GAGAAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTTGCCTGGGTGGAATTTTACCTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                1513 TTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACTACTACTATTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTCAAAACAAAGATGTATGCCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTTAGCACAGCCTTGGGGGATAATGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: 17 Human Secreted Proteins
FILE REPERENCE: PS723P1
FILE REPERENCE: PS723P1
FURRENT APPLICATION NUMBER: US/10/896,972
CURRENT FILING DATE: 2004-07-23
PRIOR APPLICATION NUMBER: US/09/915,582
PRIOR APPLICATION NUMBER: PCT/US01/01431
PRIOR FILING DATE: 2001-07-27
PRIOR FILING DATE: 2001-01-17
PRIOR FILING DATE: 2001-01-17
PRIOR FILING DATE: 2000-01-31
PRIOR FILING DATE: 2000-01-31
PRIOR APPLICATION NUMBER: 60/180,628
PRIOR FILING DATE: 2000-01-31
PRIOR APPLICATION NUMBER: 60/231,968
PRIOR FILING DATE: 2000-09-01
SOFTWARE: PATCHING DATE: 2000-09-12
NUMBER OF SEQ ID NOS: 97
SOFTWARE: PATCHIN VET. 2.0
SEQ ID NO 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-896-972-29
; Sequence 29, Application US/10896972
; Publication No. US20050032168A1
; GENERAL INFORMATION:
                                                                                     1153
                                                                                                                1235
                                                                                                                                             1213
                                                                                                                                                                        1295
                                                                                                                                                                                                                                  1355
                                                                                                                                                                                                                                                               1333
                                                                                                                                                                                                                                                                                           1415
                                                                                                                                                                                                                                                                                                                                                    1475
                            1093
                                                         1175
                                                                                                                                                                                                                                                                                                                                                                                                             1535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1693
                                                                                                                                                                                                                                                                                                                        1393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1573
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1753
   1115
                                                                              g
                                                                                                                                     셤
                                                                                                                                                                                                   윱
                                                                                                                                                                                                                                                         셤
                                                      ઠે
                                                                                                              8
                                                                                                                                                                       ò
                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                          δ
                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
```

```
106 GCACGAACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCC
                                                                                                                                                                                                                                                                                                                                     130 CTACCATAATCGTCAAGAACATATAAGTACTTTTCACTTCCATTCTGTGGGGTCAAA
                                                                                                                                                                                                                                                                                                                                                   166 CTACCATAATCGTCAAGAAACATATAAGTAÇTTTTCACTTCCATTCTGTGTGGGGGTCAAA
                                                                                                                                                                                                                                                                                                                                                                                         AAAAAGTATCAGTCATTACCATGAAACTCTGGGGAGAAGCACTTCAAGGGGTTGAATTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                  AAAAAGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGAAGATTACTATTGGACCTATAAAAACTTGAAATAGGTTTTAATGGAAATCGAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        466 AGAAGATTACTATCTATGGACCTATAAAAACTTGAAAIAGGTTTTAATGGAAATCGAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGATGTCATATTCAGTAAAATGGGAAAAAGTCAGATGTGGAAATTTGAAGATCGATTTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10 CATGGCGGCCGCCTGTGCCTGCTGCTGCTGCTGCCCCCGGACCCGGGCGGACGA
                                                                                                                                                                                                                                                                                70 GCACGAACACACGTATCAAGATAAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGATTTAGATAAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCAGATGTACATAGATGTATACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGTTGATGTTAATCTAACTAGTGAAAGGTGAAACT-GGTTCCAAATACTAAAATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCATGATGGTGATCTTGGTGGGCTTAGTTTCAATGATTTAATGAGAACATTAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          586 AGATGTCATATTCAGTAAAATGG-AAAAGTCAGATGTGAAATTTGAAGATCGATTTGAC-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCT
                                                                                                                                                                                                  8
                                                                                                                                                                         Length 3389
                                                                                                                                                                                                  11; Indels
                                                                                                                                                                         DB 6;
                                                                                                                                                                       Score 1725.4;
Pred. No. 0;
0; Mismatches
 CURRENT FILING DATE: 2002-07-24
PRIOR PAPLICATION NUMBER: GB 0118354.0
PRIOR FILING DATE: 2001-07-27
NUMBER OF SEQ ID NOS: 197
SSCTWARE: Patentin Ver. 2.1
SEQ ID NO 122
LENGTH: 3389
                                                                                                                                ; OTHER INFORMATION: BP70-P-iso US-10-205-219-122
                                                                                                                                                                          94.4%;
                                                                                                                                                                          Query Match
Best Local Similarity 99.0
Matches 1800; Conservative
                                                                                            TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                           190
                                                                                                                                                                                                                                                                                                                                                                                                                    226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   549
                                                                                                                                                                                                                                                                                                                                                                                                                                              250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              729
                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          원
                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                             1114
                                                                                                                                                1174
                                                         1152
                                                                                                                                                                                                     1234
                                                                                                                                                                                                                             1212
                                                                                                                                                                                                                                                       1294
                                                                                                                                                                                                                                                                                                                                       1332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1714
                                                                                                                                                                                                                                                                                                              1354
                                                                                                                                                                                                                                                                                                                                                                 1414
                                                                                                                                                                                                                                                                                                                                                                                                                     1474
                                                                                                                                                                                                                                                                                                                                                                                                                                  1512
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1632
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1774
                                                                                                                                                                                                                                                                                                                                                                                           GGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTAT 1392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACTATIGIGIGCACATATITICIACIAAAIGCAGAAGATIACCGGIGGCAAIGGACAAGI 1534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTTCTCTCTGCTGCATCAACTGCAATCTATGACATGTATTCCTTTTACTACTATTTT 1594
Molecules Implicated in Pain
                                                                                         TICATAGCCATITATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTT
                                                                                                                                                                                                   TGTTGCATCTGTTTTTTTTTTTTTTCTTCCTCTAAATCTTGGTACAATACTTGGCCGA
                                                                                                                                                                                                                 TGTTGCATCTGTTTTTTTTTTTTTTTTCTTCCTCTAAATCTTGTTGGTACAATACTTGGCCGA
                                                                                                                                                                                                                                                                     1213 AATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTTAGCACAGCCTTGGGGATAATGTGTGGGAGCGATTGGTTACATGGGAACAAGTGCCTTT
                                                                                                                                                1115 TICATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTT
                                                                                                                                                                                                                                                                                                              GAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTT
                                                                                                                                                                                                                                                                                                                                     GAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTT
                                                                                                                                                                                                                                                                                                                                                                 GGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                       TTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           οţ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-205-219-122
Sequence 122, Application US/10205219
Sequence 122, Application US/10205219
Publication No. US20030138803A1
SEMERAL INFORMATION:
APPLICANT: Warner-Lambert Company
APPLICANT: Lee, Kevin
APPLICANT: Dixon, Alistair
APPLICANT: Brooksbank, Robert
APPLICANT: Pinnock, Robert
TITLE OF INVENTION: Identification and Use of; FILE REFERENCE: WL-A-018200
CURRENT APPLICATION NUMBER: US/10/205,219
                                                                                            1055
                                                                   973
                                                                                                                      1033
                                                                                                                                                                         1093
                                                                                                                                                                                                                             1153
                                                                                                                                                                                                                                                       1235
                                                                                                                                                                                                                                                                                                                                     1273
                                                                                                                                                                                                                                                                                                                                                                                                                                                1393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1715
                                        995
                                                                                                                                                                                                   1175
                                                                                                                                                                                                                                                                                                            1295
                                                                                                                                                                                                                                                                                                                                                                 1355
                                                                                                                                                                                                                                                                                                                                                                                            1333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1573
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1775
                                        ઠ
                                                          g
                                                                                          ઠે
                                                                                                               g
                                                                                                                                       8
                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                  8
                                                                                                                                                                                                                       요
                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                            δ
                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
```

285

369 405 429 465 489 548 585 668

701

728

761

788

165

105

Gaps

```
APPLICANT: Wyeth
APPLICANT: Wouts, William
APPLICANT: Mounts, William
APPLICANT: Mounts, William
APPLICANT: Mounts, William
APPLICANT: Mounts, William
TITLE OF INVENTION: HUGGER CASOOR (AM 101081)
FILE OF INVENTION: HUMAN OSTEOARTHRITIS AND HUMAN PROTEASES
FILE REFERENCE: 031896-043000 (AM 101081)
CURRENT APPLICATION NUMBER: US/10/956,157
CURRENT FILING DATE: 2004-10-04
NUMBER OF SEQ ID NOS: 319805
SOFTWARE: Patentin version 3.2
SEQ ID NO 2297
LENGTH: 3389
                                                                                                                                                                                                                                                                             GCACGAACACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCC
                                                                                                                                                                                                                                              CGTGGCGGCCGCCGCGCTGTGGTGCTGCTGCTGCTGCCCGGACCCGGACGA
                                                                                                                                                                                                                                                                                        GCACGAACACGCATTCAAGATAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCC
                                                                                                                                                                                                                                                                                                                                       AAAAAGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                               TGATTTAGATAAAGAAAAGAGAGAGATTCTATATGCCATAAAAAATCATTACTGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGATTTAGATAAAGAAAAAGAGAGAGCATTTGTATATGCCATAAAAAAATCATTACTGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAAAAGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                    CCAGATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCAGATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGTTGATGTTAATCTAACTGAAAGGTGAAACT-GGTTCCAAATACTAAAATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           iginganginaarciaaciagngaaggaaaggigaaaciggginccaaatacialaarcc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGATGTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTTGAAGATCGATTTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGAAGATTACTATCTTTGGACCTATAAAAACTTGAAATAGGTTTTAATGGAAATCGAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AATATCTTGATCCGTCCTTTTTCAACATCGGATTCATTGGTTTTCAATTTTTCAACTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AATATCTTGATC--GTCCTTTTTTCACATCGGATTCATTGGTTTTTCAATTTTTCAACTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TCATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAA
                                                                                                                                                                                 Length 3389,
                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                           CTACCATAATCGTCAAGAACATATAAGTACTTTTCACTTCCATTCTGTGT
                                                                                                                                                                                                                                CATGGCGCCGCCGCGCTGTGGCTGCTGCTGCTGCTGCTGCCCCCGGACCC
                                                                                                                                                                                    DB 9;
                                                                                                                                                                                                           11;
                                                                                                                                                                                 94.4%; Score 1725.4;
larity 99.0%; Pred. No. 0;
Conservative 0; Mismatches
                                                                                                                                    TYPE: DNA
ORGANISM: Homo sapiens
US-10-956-157-2297
                                                                                                                                                                                            Best Local Similarity
Matches 1800; Conserv
  SENERAL INFORMATION:
                                                                                                                                                                                                                                ព
                                                                                                                                                                                                                                                      46
                                                                                                                                                                                                                                                                            70
                                                                                                                                                                                                                                                                                                    106
                                                                                                                                                                                                                                                                                                                           130
                                                                                                                                                                                                                                                                                                                                                  166
                                                                                                                                                                                                                                                                                                                                                                         190
                                                                                                                                                                                                                                                                                                                                                                                             226
                                                                                                                                                                                                                                                                                                                                                                                                                                          286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     702
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              729
                                                                                                                                                                                                                                                                                                                                                                                                                      250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 699
                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                           ዊ ਨ
                                                                                                                                                                                                                                                                                                                                                                                         음 &
                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 8 8 8 8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                      1088
                                                                                                                                                                                    1148
                                                                                                                                                                                                         1179
                                                                                                                                                                                                                                                       1239
                                                                                                                                                                                                                                                                             1268
                                                                                                                                                                                                                                                                                                                           1328
                                                                                                                                                                                                                                                                                                                                                  1358
                                                                                                                                                                                                                                                                                                                                                                         1388
                                                                                                                                                                                                                                                                                                                                                                                               1418
                                                                                                                                                                                                                                                                                                                                                                                                                      1448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1658
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1718
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1778
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1061
                                                                                                                                                                                                                                                                                                                                                                                                                                  1419 CGICTTTCTGGGCATATAAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTA 1478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACAT 1628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TIGGITACAIGGGAACAAGIGCCITTIGICCGAAAAAICTATACTAAIGIGAAAATIGACT 1748
  908
                      941
                                             896
                                                                                                     TTGTCTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGAC
                                                                                                                                                                                 1719 TIGGITACATGGGAACAAGIGCCTITGICCGAAAAAICTATACTAATGIGAAAATTGACT
          TTGTTGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATAT
                                                                                                                                      AAGGAGGAAGGAGATGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGG
                                                                                                                                                                                                                                              TCAATGCTGTGCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        rccrerecarrereacrerererereacrarrererecacararrrcracraarrecae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rrdrrdcaargaradararararacrdagagaggarcaargcrcagracagccarar
                                                                                         TIGICIAIGCIGCIACGICICCAGIGAAIGGIIATITIIGGAGGAAGICIGIAIGCIAGAC
                                                                                                                                                  AAGGAGGAAGGAGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTAGG
                                                                                                                                                                                                                                                                                                                                       TCAATGCTGTGCTCGTCCTATACCGGAGAAAAATGGTTCATGGAG-CTGCGGTTATTG
                                                                                                                                                                                                                                                                                                                                                                        TITGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTCATCTTCA
                                                                                                                                                                                                                                                                                                                                                                                             TCCTGTGCATTGTGACTGTGTGACTATTGTGTGCACATATTTCTACTAAATGCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                      CGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGGAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACAGCAAAACAAACAAAC 1827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1002
                                                                                                                                                                                  1089
                                                                                                                                                                                                                                                                                                    1240
                                                                                                                                                                                                                                                                                                                                                  1300
                                                                                                                                                                                                                                                                                                                                                                                               1359 '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1659
                                            909
                                                                  942
                                                                                                                                    1029
                                                                                                                                                           1062
                                                                                                                                                                                                        1121
                                                                                                                                                                                                                               1149
                                                                                                                                                                                                                                                      1180
                                                                                                                                                                                                                                                                             1209
                                                                                                                                                                                                                                                                                                                           1269
                                                                                                                                                                                                                                                                                                                                                                         1329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1779
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1809
                                                                                         696
                                                                                                                                                                                                                                                                                                                                                                                                                      1389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1749
                g
                                                                                                         ద
                                                                                                                                                        g
                                                                                                                                                                                                    g
δ
                                           ð
                                                             셤
                                                                                       8
                                                                                                                                    ò
                                                                                                                                                                         ò
                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
```

728 761

701

821

ATGAATATGGAAGCAAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCACTGA 848

AAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAG

762 789

a

US-10-956-157-2297; Sequence 2297, Application US/10956157; Publication No. US20050118625A1

```
Query Match
Best Local Similarity 99.0%;
Matches 1800; Conservative
                                                                                                                                                            ; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-287-436A-335
JS-10-287-436A-335
                                                                                                                                        SEQ ID NO 335
LENGTH: 3389
                                                                                                                                                                                                                                                                                                                                                                   190
                                                                                                                                                                                                                                                                                                                                                                                                           250
                                                                                                                                                                                                                                                                                                                                                                                                                                                   310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  430
                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                           'જે
                                                                                                                                                                                                                                                                                   δ
                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                     원
                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            吕
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                   ठ
                                                                                                                                                   1088
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1748
                                                                                                            1028
                                                                                                                                                                       1120
                                                                                                                                                                                                              1179
                                                                                                                                                                                                                                                      1239
                                                                                                                                                                                                                                                                                                                                                         1388
                                                                                                                                                                                                                                                                                                                                                                                                                     1478
                                                                                                                                                                                                                                                                                                                                                                                                                                         1508
                                                                                                                                                                                                                                                                                                                                                                                                                                                              1538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1658
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1838
                                                                                                                               1001
                                                                                                                                                                                           1148
                                                                                                                                                                                                                                 1208
                                                                                                                                                                                                                                                                           1268
                                                                                                                                                                                                                                                                                               1299
                                                                                                                                                                                                                                                                                                                   1328
                                                                                                                                                                                                                                                                                                                                      1358
                                                                                                                                                                                                                                                                                                                                                                              1418
                                                                                                                                                                                                                                                                                                                                                                                                  CGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTA 1448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CATITIACTITIGGATATATGGCGGTATITAGCACAGCCTIGGGGATAATGTGTGGAGCGA 1718
                                                                                       1001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGAGACCCAAGAAAACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGC 1808
                                                                     968
                                                941
                                                                                                                                                  -GGTGTGCATCCTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCA
                                                                                                                                                                                                                                           ATCTTGTTGGTACATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTG
                                                                                                                                                                                                                                                                                                                              TCAATGCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAG-CTGCGGTTATTG
                                                                                                                                                                                                                                                                                                                                                           TITGCCTGGGTGGAATTITACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCA
                                                                                                                                                                                                                                                                                                                                                                    TTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCA
                                                                                                                                                                                                                                                                                                                                                                                                             CGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAGATTACCGGTGGCAATGGACAGTTTTCTCTCTCTGCTGCATCAACTGCAATCTATGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TIGITGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATAT
                                                                               TTGTTGCAATGATAGAAGATTTATATATACTGAGAGGGGATCAATGCTCAGTACAGCCATAT
                                                                                                                                                                                                                                  TICCITITIGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTTGTTATTCTTCCTCTAA
                                                                                                                                                                                                                                                                           ATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTG
                                                                                                                                                                                                                                                                                                                   TCAATGCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                           TCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACATGTATTCCTTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CATITIACTITICGATATATGGCGGTATITIAGCACACCCCTTGGGGATAATGTGTGGAGCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACAGCAAAACAAACAAAC 1857
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACAGCAAAACAAACAAAC 1827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1779
                                                  882
                                                                      909
                                                                                        942
                                                                                                            696
                                                                                                                                1002
                                                                                                                                                   1029
                                                                                                                                                                       1062
                                                                                                                                                                                           1089
                                                                                                                                                                                                              1121
                                                                                                                                                                                                                                    1149
                                                                                                                                                                                                                                                      1180
                                                                                                                                                                                                                                                                            1209
                                                                                                                                                                                                                                                                                                1240
                                                                                                                                                                                                                                                                                                                    1269
                                                                                                                                                                                                                                                                                                                                      1300
                                                                                                                                                                                                                                                                                                                                                            1329
                                                                                                                                                                                                                                                                                                                                                                               1359
                                                                                                                                                                                                                                                                                                                                                                                                   1389
                                                                                                                                                                                                                                                                                                                                                                                                                                           1449
                                                                                                                                                                                                                                                                                                                                                                                                                                                              1479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1659
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1839
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                           g
                                                                     ò
                                                                                                          ò
                                                                                                                              셤
                                                                                                                                                                   ద
                                                                                                                                                                                           ò
                                                                                                                                                                                                             a
                                                                                                                                                                                                                                   8, 8
                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                   Š
```

Ġ 429 465 489 668 701 106 GCACGAACACGTATCAAGATAAAGAAGTTGTTTTATGGATGAATACTGTTGGGCC 226 AAAAAGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGA 286 ATTTAGTGGTCTGGATATTAAATTTAAAGATGATGTGATGTGAGGCCACTTACTGTGAAA TGATTTAGATAAAGAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTA AGAAGATTACTATCTTTTGGACCTATAAAAACTTGAAATGGGTTTTAATGGAAATCGAAT 526 TGTTGATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGGTTCCAAATACTATAATCC 586 AGATGTCATATTCAGTAAAATGG-AAAAGTCAGATGTGAAATTTGAAGATCGATTTGAC-702 rcardardergarcrrrcrregregecrracrrrcaargarrraargagaacarraagaa 46 ceresciceccecececererescristricates de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de consecret de co 346 TGATTTAGATAAAGAAAGAGAGAGCATTTGTATATGCCATAAAAATCATTACTGGTA 370 CCAGATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAATGG TGTTGATGTTAATCTAACTAGTGAAGGAAAGGTGAAACT-GGTTCCAAATACTAAAATCC 549 AGATGTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACA AATATCTTGATCCGTCCTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCT 644 AAIAICITGAIC--GICCTITITICACAICGGAITCAITGGITITICAAITTICAACICCI 669 TCATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAA 70 GCACGAACACACGTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTTGGGCC AAAAAGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTGGA 10 CATGGCGGCCGCCGCGCTGTGCTGCTGCTGCTGCTGCCCGGGCCCGGGCGGACCGA Gaps ., 8 Length 3389; 11; Indels DB 9; Sequence 335, Application US/10287436A
Publication No. US20050202421A1
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
FITLE OF INVENTION: METHOD FOR DIAGNOSIS AND TREE;
FILE REFERENCE: 10872.514696
CURRENT APPLICATION NUMBER: US/10/287,436A
CURRENT FILING DATE: 2002-10-31
FRIOR APPLICATION NUMBER: US 60/336,220
PRIOR FILING DATE: 2001-10-31
NUMBER OF SEQ ID NOS: 1446
SOFTWARE: FRAESEQ for Windows Version 4.0 Score 1725.4; I Fred. No. 0; 0; Mismatches

729 AAGATTATGCTCGGTACAGTAAAGAGGAAGAATGGATGATATGGATAGGATAGAGACCTAGGAG 788

ਨੇ

RESULT 12

B & B &

셤

8

요

8 8

\$ 8 8

셤

셤

à

셤

ઠે

8 6 8

ò

셤

6 6 6 6 6

8

셤

ઠે

ò

```
73 CGAACACACGTATCAAGATAAAGAGAAGTTGTCTTATGGATGAATACT--GTTGGGCCC 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 CGAACACACGTGTCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTTGTTGGGCCCT 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121 aacaaaarrcercagaaaacrrrraagracrrrrcacrrccarrcrererereseaaa 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421 TGAAAATGCGAGAAGATTACTATCTGTTGGACCGTATAAAAAACTTGAAATTAGGTTTTA 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   481 ACTIGGAAATCGGAAGTTGTTGTATGTTATGTTAACTACGTGAAGAGAAAAGAGTGAAACA 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        541 recrircanaractranariccacarcicararricacranaracarcanaracage 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                 Sequence 1697, Application US/10062674
Publication No. US20040005559A1
GENERAL INFORMATION:
APPLICANT: Loring, Jeanne F.; Kaser, Matthew R.
TITLE OF INVENTION: MARKERS OF NEURONAL DIFFERENTIATION AND MORPHOGENESIS FILE REPERENCE: PA-0026-1 CIP
CURRENT APPLICATION NUMBER: US/10/062,674
CURRENT FILING DATE: 2002-01-29
PRIOR APPLICATION NUMBER: US 09/625,102
PRIOR FILING DATE: 2000-07-24
NUMBER OF SEQ ID NOS: 2217
SOFTWARE: PERL PROGram
SEQ ID NO 1697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181 AAAAAAAGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GAATTTAGTGGTCTGGATATTAAATTTTAAAGATG-ATGTGATGCCAGCCACTT-ACTGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 cascoaccacacrarateratracracracracccaaacracaacaacaacaacaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   131 TACCATAATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCTGTGTGGGGGTC---A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        188 AAAAAAAGTATCAGTCATTACCATGAAACTCTGGGAGAAGCACTTCAAGGGGTTGAATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             306 AAATTG-ATTTAGATAAAG-AAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTGGTACCAG-ATGTACATAG--ATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGGTTCCAAATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAAAAGTCAGA--TG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15 CGGCCGCCGCGCTGTGGCTGCTG-CTGCTGCTGCTGCCCCGGAC-CCGGGCGGACGAGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGAAAATG-GAGAAGATTACTATC--TTTGGACCTATAAAAAACTTGAAAT--AGGTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 1024.6; DB 6; Length 6197;
Pred. No. 6.6e-243;
0; Mismatches 195; Indels 97;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
PERATURE:
NAME/KEY:
NAME/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/KEY:
MANG/K
              1839 ACAGCAAAAACAAACAAAC 1857
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 56.1%;
Best Local Similarity 84.7%;
Matches 1618; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   476 AATGGAAATCGAA----
                                                                                                                                            -10-062-674-1697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-062-674-1697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             528
              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1062 AAGGAGGAAGAAGATGGATAAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATG- 1120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TIGICIAITGCIGCIACGICICCAGIGAAIGGITAITITIGGAGGAAGICIGTAIGCIAGAC 1028
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1002 TIGICTAIGCTACGICICCAGIGAAIGGITAITITGGAAGGAAGICIGIATGCIAGAC 1061
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAGGAGGAAGGAGATGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGG 1088
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1419 CGTCTTTCTGGGCGTATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTA 1478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1479 TCCTGTGCATTGTGACTGTCTGTGTGACACATTGTGTGCACATATTTTTTTATAAATGCAG 1538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1658
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1808
                                                                                                                                                                                                                                                                                                                                                                                                                                                942 TIGTTGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTACAGCCATAT 1001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1359 TTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCA 1418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCCTGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAG 1508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1509 AAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTT 1568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1838
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1240 ATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTG 1299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1569 ACATGTATTCCTTTTACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAAACAT 1628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1719 TIGGITACATGGGAACAAGTGCCTTTGTCCGAAAATCTATACTAATGTGAAAATTGACT 1778
                                                                                                             848
                                                                                                                                                                            881
                                                                                                                                                                                                                                        TATITICCICTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTA 908
                                                                                                                                                                                                                                                                                                           941
                                                                                                                                                                                                                                                                                                                                                                          TIGITGCAAIGATAGAAGAITTATATACTGAGAGGGGATCAAIGCTCAGTACAGCCAIAT 968
                                          821
ATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGA
                                                                                                                                            822 ATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGA
                                                                                                                                                                                                                                                                                                       882 TATTITICCICICIGATIGGITCIGGATGICAGATATITIGCIGIGICICICALCGITATIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTCTGCGCATCAACTGCAATCTATGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTCAAACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CATTITACTITIGGATATATGGCGGTATITIAGCACAGCCTTGGGGGATAATGTGTGGGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1089 TGTGTGGCACTGCCTTCTTCATCATTTCATAGCCATTTATTACCATGCTTCAAGAGCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCAATGCTGTGCCTCGTCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTAATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1300 rchardcrefrecterectaracceaeaaaaarectrefreaceacreare
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1749 AGAGACCCAAGAAAACCTGGAACTTTGGATTCAATTTCTTTTTCATAGGGGTGGAACTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1779 AGAGACCCAAGAAAACCTGGAACTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACAGCAAAACAAACAAAC 1827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1029
                                                                                                      789
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1449
                                   762
                                                                                                                                                                                                                                        849
                                                                                                                                                                                                                                                                                                                                                                             606
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                696
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1809
```

Oy 1606 GATGTATGGGTTATTTCAACATCTTTGGATATATGGCGGTATTTAGCACA 1663	RESULT 14 US-10-264-237-1414  i Sequence 1414, Application US/10264237 i Publication No. US20040009491A1 i GENERAL INFORMATION: i APPLICANT: Birse et al. i TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE REPERENCE: PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31P1 i FILE PAI31	CURRENT FILING DATE: 2002-10/04 /3/   CURRENT FILING DATE: 2002-10-04   PRIOR PILING DATE: 2001-05-18   PRIOR FILING DATE: 2001-05-18   PRIOR FILING DATE: 2000-05-19   PRIOR PILING DATE: 2000-05-19   NUMBER OF SEQ IN ONS: 28776	1070 1070 Homo Bapiens : misc_feature : (34)(34)	a,t,g, or a,t,g, or	a, t, g, a, t, g,	quals a,t,g, or quals a,t,g, or quals a,t,g, or	PRATURE:     PRATURE:
		Oy         927 ATTANTACTORAGGGGGGGTCANGTCAGGGGGTATTTGCTANGCTTGCTAGG 985           Db         961 ATTANTACTGAGGGGGATCANTGCTCAGTACGCCATATTTGCTAAGCTTGCTACG 1020           Oy         986 TCT-CCAGTGAATGGTTATTTTGAGGAAGTCTGTATGCTAGACAAGAGGAAGAAGGGAATG 1044           Db         1021 TCTCCCAGTGAATGGTTATTTTGAAGGAAGCGATACTTAAAAGAGAGAAAATGG 1080	Qy         1045 GATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTG 1090           Db         1081 GCTATAAAGCCAGAATGGTTTAATTTGGGGGCATTCCCTTTAATTTCCCAAGCTAATTGG 1140           Qy         1091 TGTGGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACCATGCTT 1139           Db         1141 GTTGTGGGCCAACTTGCCTTTCTTCATCAATTTCATAGCCATTTATTACCATGCTT 1200	Qy         1140 CAAGAGCCATTCCTTTTGGAAC-AATGGTGGCCGTTTGTTGCTTGTTTTTTTTTT	Qy         1258 TCCTTGTCGTGTCAATGCTGTGCCTC-GTCCTATACCGGAGAAAAAATGGTTCATG 1312           Db         1321 TCCTTGTCGTGTCAATGCTGTGCCTCTGTCCTATACCGGAGAACACACAGATGGTACATG 1380           Qy         1313 GAGCCTGCGGTTATTGTTTGCTTGGAGATTTTACCTTTTGGTTCAATCTTATTGAA 1372           Db         1381 GAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTTGGTTCAATCTTAATTGAA 1440	OY 1373 ATGTATTCATCTTCACGTCTTTCTCGGCCATATAAGATCTATTATGTCTATGGCTTCATG 1432	Oy         1493 TTTCTACTAARGCAAAGTTACCGGTGGCAATGGACAAGTTTTCTCTCTCTC

```
DROSOPHILA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-11-097-143-22277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             348
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                          1243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATC 1363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1611
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1671 GGATAATGTGTGGGAGCGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATA 1730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1731 CTAATGTGAAAATTGACTAGAGACCCCAAGAAAACCTGGAACTTTGGATCAATTTCTTTTT 1790
                                                                                                                                                                                                                                                                                                   1064 GGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCATCATTTCATAGCC 1123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1244 GGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCGTATACCGGAGAAAAA 1303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTAT 1423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1612 TGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTT-GG 1670
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GETCAGCCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAAAAAA 319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATC 379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            620 AACTGCAATCTATGTATACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTA 679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            739
                                                                                                                                                                                                                                                                                                                                    80 GGGCCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCATCAATTTCATAGCC 139
                                                                                                                                                                                                                                                                                                                                                                                                       140 ATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATC 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             200 IGTTTTTTTGTTATTCTTCTTCTAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCA 259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              500 TGCACATATTTTCTACTAAATGCAGNAAGNATTACCGGTGTGCCATTCATTCAAAAGNAG 559
                                                                                                                                                                                                                                                               79
                                                                                                                                                                                                                                                                                                                                                                                                                                            TGITTITITIGITATICTICCICIAAAICTIGITGGIACAATACTIGGCCGAAAICTGICA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GGATAATGTGTGTGGGGAGTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATA
                                                                                                                                                                                                                              1004 TTTGGAGGAAGTCTGTATGCTAGACAAGGAGAAGGAGATGGATAAAGCAGATGTTTATT
                                                                                                                                                                                                                                                               20 TTTGGAGGCTCTCTNTATGANAGACAAGGAGGAGGACATGGATAAAGCAGATGTTTATT
                                                                                                                                                                                                                                                                                                                                                                        ATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         380 TTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ------GGCAATGGACAAGTTTTCTCTCTGCTGCATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTAATGTGAAAATTGACTAGAGACCCAAGAAACCTGNAACTTTGGATCAATTTCTTTTT
                                                                                                                                                                                         53;
                                                                                                                                                         Length 1070;
                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGCACATATTTTCTACTAAATGCAGAA--GATTACCGGT----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CATAGGGGTGGAACTTGCACAGCAAAACAAACAAAC 1827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CATAGGGGTGGAACTTGCACAGCAAAACAAACAAAC 896
                                                                                                                                                         Score 726.4; DB 6;
Pred. No. 2.5e-169;
0; Mismatches 11;
                                      or
                                                                                                         ŏ
                                                 FEATURE:

NAME/KEY: misc feature

LOCATION: (1047)...(1047)

COTHER INFORMATION: n equals a,t,g,
NAME/KEY: misc feature
LOCATION: (1025)..(1025)
OTHER INFORMATION: n equals a,t,g,
                                                                                                                                                       Query Match 39.8%;
Best Local Similarity 92.7%;
Matches 813; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1484
                                                                                                                                                                                                                                                                                                                                                                                                                                            1184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1791
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   800
                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                    원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
```

```
Sequence 22277, Application US/11097143

Publication No. US2005020858A1

GENERAL INFORMATION

TAPLICAMY: Venter, J. Craig

APPLICAMY: et al.

TITLE OF INVENTION: DRECTION KIT, SUCH AS NUCLEIC ACID

TITLE OF INVENTION: DREAVE, FOR DETECTING EXPRESSION OF 10,000 OR MORE

TITLE OF INVENTION: DREAVE, FOR DETECTING EXPRESSION OF 10,000 OR MORE

TITLE OF INVENTION: DREAVE, FOR DETECTING EXPRESSION OF 10,000 OR MORE

TITLE OF INVENTION: DREAVE, FOR DETECTING EXPRESSION OF 10,000 OR MORE

TITLE OF INVENTION: DREAPE, 2005-04-04

PRIOR REPLICATION NUMBER: 60/157,832

PRIOR APPLICATION NUMBER: 60/160,191

PRIOR PILLING DATE: 1999-10-12

PRIOR FILLING DATE: 1999-11-12

PRIOR FILLING DATE: 1999-11-12

PRIOR FILLING DATE: 1999-11-12

PRIOR PILLING DATE: 1999-11-12

PRIOR PILLING DATE: 1999-11-12

PRIOR PILLING DATE: 1999-11-12

PRIOR PILLING DATE: 1999-11-12

PRIOR PILLING DATE: 1999-11-12

PRIOR PILLING DATE: 1999-11-12

PRIOR PILLING DATE: 2000-02-24

PRIOR PILLING DATE: 2000-02-24

PRIOR PILLING DATE: 2000-03-23

NUMBER OF SEQ ID NOS: 43008

SOFTWARE: FEASTER OF WINDOWS VERSION 4.0

SEQ ID NO 22277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          416 cecrecialogacircalecracidatricalecraceacaricalerricaleaceaceacece 475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    476 ccaaatcestcatcrescatestcatcritecaesaaaaaacescaasestricactrate 535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            596 TCGGTGAGCGCGACGAGGGCATGGCAAGTACTATATCTTCACGCACAAGAAGTTCGACA 655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCATAAAAATCATTACTGGTACCAGATGTACATAGATGATTTACCAATATGGGGTATTG 407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                536 CCGTCAAGAACGAGTACTGGTACCAGATGTACATCGATGGACTGCCCATTTGGGGAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         48 TGCCCCGGACCGGACGACGACCACGACACACGTATCAAGATAAAGAGGAAGTTGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 236 igrecerereceagicadardadearareareararareareareareareareare
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               108 TATGGATGAATACTGTTGGGCCCTACCATAATCGTCAAGAAACATATAAGTACTTTTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             168 ITCCATTCTGTGTGGGGTCAAAAAAAGTATCAGTCATTACCATGAAACTCTGGGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           228 CACTTCAAGGGGTTGAATTGGAATTTAGTGGTCTGGATATTAAATTTAAAGATGATGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     288 TGCCAGCCACTTACTGTGAAATTGATTAGATAAAGAAAAGAGAGATGCATTTGTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         408 TIGGIGAGGCIGAIGAAAAIGGAGAAGAIIACIAICTIIGGACCIAIAAAAAACIIGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       468 TAGGITITAATGGAAATCGAATTGTTGATGTTAATCTAACTAGTGAAGGAAAGGTGAAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    356 rececritrideagresecasaagreeresararesearaceaeaeaeaeaeaea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  75;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 646; DB 10; Length 1.
Pred. No. 3.1e-149;
0; Mismatches 560; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 35.4%;
Best Local Similarity 62.7%;
Matches 1067; Conservative
```

1608 TGTATGGCTTATTCAAACATCA 1721 TGTTCGGTCTGTTCCAAACGGCG 1668 TGGGATAATGTGGAGCGATT 1781 TGGGCATTATCTGCGCACCGTC 1728 ATACTAATGTGAAAATTGACTA	Db 1841 ATTCCAATGTGAAAATAGACTA 1862 Search completed: March 11, 2006, 04:54:25 Job time : 1501.99 secs														
						•									
	•														
656 TGGGCTACAATGGCAGAATGGTGATATCACCCTGACCACGAGGGCCGCGAGGAAC 715 528 TGGTTCCAAATACTAAAATCCAGATGATCATTCAGTAAAATGGAAAAAGTCAGATGTGA 587 716 TCAAGCCGGGATCCACATCACTTCTCCTACGAGGTCACTAGAAGGCCAGCAGGAGGTGG 775 588 AATTTGAAGATCGATTGACAACTTCTTGATCGTCCTTTTTTTT		768 ATATGGATAGAGACCTAGGAGATGAATATGGATGGAAGAGTGCATGGAGATGTATTTA 827	1016 GTTCTCCGCCCAACACTCTTCTCGCGCTTGGTGGCGCTGGATACCAACTGATT 1075 888 CTGTGTCTCTCATGTTATTATTGTTGCAATGAAGAATTTATATATA	CATGCTCACTACAGCCATATTTGTCTATGCTACCACTACTCCAGGAATGGTTATTTTG	1008 GAGGAAGTCTGTATGCTAGACGAGGAGGAGATGGATAAAGCAGATGTTTATTGGGG 1067 	1068 CATTCCTTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCATCATTCAT	1128 ATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCGGTTTGTTGCTTTTTT 1187 1316 GATATCACGCGTCGAGACCATTCCCTTCGGTACCATGGTGGCGGTCACTTGCATCTGCC 1375	1188 TITITGITAITCITCCCCTAAAICTIGGIACAAIACTIGGCCGAAAICTGCAGGTC 1247	1248 AGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAATGGT 1307 1413CAAGTGTT	1308 TCARGGAGCCTGCGGTAATIGTTTGCCTGGGGAATTTTACCTTTTGGTTCAATCTTTA 1367 1421 ACARGGAGCCACTGATTAFTGTGCTTCTTGGGGGTGTTGCCCTTTGGATCCATCTTCA 1480	1368 TTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCT 1427 	1428 TCATGATGCTGGTTGTTATCCTGTGCATTGTGACTGTGTGTG	1488 CATATITICTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGTITICTCTCTGGTG 1547	1548 CATCAACTGCAATCTATGTATTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAA 1607 1661 GCTCCACGTCGATTTACGTGTAACGCCTATTCCTTCTATTACTTCTTTAAAAACAAAA 1720	
8 6 8 6 8	9 6 B	\$ 8 \$	원 상 원	8 8	දු දු	\$ g	8 S	کو م	상 임	è 8	රු පු	දු පු	දු පු	op ox	

```
March 10, 2006, 22:05:49; Search time 585.727 Seconds (without alignments) 7196.920 Million cell updates/sec
                                                                                                                                                                                                                                                           1 agettecaccatggeggeeg.........acageaaaaaaaaaaa 1827
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                             OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                     IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                              US-10-755-466-3
1827
                                                                                                                                                                                                                                    Perfect score:
                                                                                                                                                                                                                                                                                                     Scoring table:
                                                                                                                                                                                                                                                         Sequence:
                                                                                                                           Run on:
```

Total number of hits satisfying chosen parameters: Minimum DB seq length: 0 Maximum DB seq length: 200000000

7673375 segs, 115364'8444

Searched:

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

2/pubpna/USO7\_NEW\_PUB.seq:\*
2/pubpna/PCT\_NEW\_PUB.seq:\*
2/pubpna/USO9\_NEW\_PUB.seq:\*
2/pubpna/USO9\_NEW\_PUB.seq:\*
2/pubpna/USO0\_NEW\_PUB.seq1:\*
2/pubpna/USIO\_NEW\_PUB.seq1:\* 'pubpna/US11 pubpna/US1 ptodata/2, ptodata/2 Published A Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Description	Sequence 1325, Ap		ີດ້	Sequence 1699, Ap Sequence 50, Appl	Sequence 49, Appl	Sequence 21, Appl	Sequence 724812,	Sequence 478, App	Sequence 478, App	Sequence 4690, Ap	Sequence 4690, Ap	Sequence 1308, Ap	Sequence 173799,	Sequence 173799,	Sequence 173463,	Sequence 173463,	Sequence 173986,
SUMMARIES ID	US-11-128-061-1325 US-11-128-061-4967	US-11-128-049-1325 US-11-128-049-4967	US-11-000-688-1309	US-11-0/2-512-1699 US-11-240-769-50	US-11-240-769-49	US-11-240-769-21	US-09-925-065A-724812	US-10-932-182A-478				US-11-000-688-1308		US-10-932-182A-173799	US-10-932-182A-173463		US-10-932-182A-173986
8	122	12	17	ש פ	σ,	σ	ø	7	7	7	7	12	7	7	7	7	7
% Query Match Length DB	570 570	570 570	2391	1094	1821	1816	1251	2019	2019	2025	2025	424	636	636	465	465	1083
% Query Match	26.4	26.4	12.5	10.4	9.4	6.9	7.6	6.8	6.8	9.9	9.9	5.6	5.4	5.4	3.8	3.8	3.3
Score	482.8	482.8	227.6	190.4	172	169.4	138	124.4	124.4	120	120	101.6	98.8	98.8	69.8	69.8	60.4
Result No.	7 7	U 4	ıs v	7	<b>6</b> 0 +	6	c 10	11	12	13	14	15	16	17	18	19	20

Seguence 173986.	Sequence 288, App			Sequence 1291, Ap		•	Sequence 784906,	Sequence 307793,	Sequence 101618,	Sequence 150213,		Sequence 82883, A	Sequence 29813, A			Sequence 33765, A	"	Sequence 3, Appli		Sequence 1738, Ap	Sequence 1, Appli	Sequence 916563,	Sequence 97, Appl	Sequence 941067,
US-10-932-182A-173986	US-10-821-234-288	US-10-932-182A-81876	US-10-932-182A-81876	US-10-750-185-1291	US-10-750-623-1291	US-09-925-065A-778077	US-09-925-065A-784906	US-09-925-065A-307793	US-09-925-065A-101618	US-09-925-065A-150213	US-09-925-065A-150214	US-09-925-065A-82883	US-10-750-185-29813	US-10-750-623-29813	US-09-925-065A-89233	US-10-750-185-33765		US-11-139-195-3	US-11-139-195-1	US-11-072-512-1738	US-11-120-925-1	US-09-925-065A-916563	US-11-074-176-97	US-09-925-065A-941067
7	œ	7	7	80	Φ	9	9	9	9	9	9	φ		œ	9	œ	80	12	12	σ	12	9	12	9
1083	427	384	384	579	579	503	498	•			959	1192	1596	1596	2663	1431	1431	1512	1971	2069	188056	618	1695	605
3.3	3.3	2.9	2.9	2.4	4.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2
60.4	59.6	52.6	52.6	44.6	44.6	43.6	43.2	43.2	43.2	43.2	43.2	42.4	42.2	42.2	42.2	42	42	41.6	41.6	41.6	41.6	41.4	. 41.2	40.8
2,1	22	23	24	25	56	27	28	53	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
																υ	O							U

## ALIGNMENTS

```
APPLICANT: Brown, Eugene L.
APPLICANT: Miller, Christopher P.
TITLE OF INVENTION: NOVEL POLYMUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
TITLE OF INVENTION: TO MONITOR GENE EXPRESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATTGTTATTATTGTTGCCATGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          923 GAAGAITTATATACTGAGAGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         983 ACGICICCAGIGAAIGGITAITITIGGAGGAAGICTIGIAIGCIAGACAAGGAGGAAGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 CAGGATITIATATACAGAGAGGGATCAATGCTCAGTACCGCCATATITIGTCTATGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ٦;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 570;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 482.8; DB 1:
Pred. No. 4.8e-102
0; Mismatches 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             863 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCT
                                                                                                                                                                                                                                                                                                        FILE REPERENCE: 01997.027701
CURRENT APPLICATION NUMBER: US/11/128,061
CURRENT FILING DATE: 2005-05-11
PRIOR APPLICATION NUMBER: US 60/570,425
PRIOR PILING DATE: 2004-05-11
NUMBER OF SEQ 1D NOS: 7285
SOFTWARE: PatentIn version 3.3
Sequence 1325, Application US/11128061
Publication No. US20060003958A1
                                                                 APPLICANT: Melville, Mark W.
APPLICANT: Charlebois, Timothy S.
APPLICANT: Mounts, William M.
APPLICANT: Hann, Louane B.
APPLICANT: Sinacore, Martin S.
APPLICANT: Leonard, Mark W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 91.6%;
Matches 522; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-11-128-061-1325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 1325
                                                                                                                                                                                       APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
```

1042

120 982

```
## APPLICANT: Melville, Mark W.

## APPLICANT: Melville, Mark W.

## APPLICANT: Melville, Mark W.

## APPLICANT: Mounts, William M.

## APPLICANT: Hann, Louane E.

## APPLICANT: Hann, Louane E.

## APPLICANT: Hann, Louane E.

## APPLICANT: Heonard, Mark W.

## APPLICANT: Leonard, Mark W.

## APPLICANT: Leonard, Mark W.

## APPLICANT: Leonard, Mark W.

## APPLICANT: Leonard, Mark W.

## APPLICANT: Miller, Christopher P.

## APPLICANT: Miller, Christopher P.

## APPLICANT: Miller, Christopher P.

## APPLICANT: Miller, Christopher P.

## APPLICANT: Miller, Christopher P.

## APPLICANT: Miller, Christopher P.

## APPLICANT: Miller, Christopher P.

## APPLICANT: Miller, Christopher P.

## APPLICANT: Miller, Christopher P.

## APPLICANT: Miller, Christopher P.

## APPLICANT: Miller, Mark W.

## APPLICANT: Miller, Mark W.

## APPLICANT: Miller, Mark W.

## APPLICANT: Miller, Mark W.

## APPLICANT: Miller, Mark W.

## APPLICANT: Miller, Mark W.

## APPLICANT: Miller, Mark W.

## APPLICANT: Miller, Mark W.

## APPLICANT: Miller, Mark W.

## APPLICANT: Miller, Mark W.

## APPLICANT: Miller, Mark W.

## APPLICANT: Miller, Mark W.

## APPLICANT: Miller, Mark W.

## APPLICANT: Miller, Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark W.

## APPLICANT: Mark
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTITACCTITIGGTICAAICTITATIGAAAIGTATITICATCTICACGICTITICIGGGCA 1402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              983 ACGICICCAGIGAAIGGITAITITIGGAGGAAGICIGIAIGCIAGACAAGGAGGAGAAG 1042
TGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCC 1102
                                                                                                                                                                                                      ATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCTT 1282
                                                                                                                                                                                                                                                                                                                                                                                                                1283 CGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGA 1342
                             rrcricarcaacriraragecarrrarrarcarecercraeaecearrecrirreeaaca 300
                                                                                                                                                                                                                                  301 AIGGIGGCCGTITGTITGCAICTGTITITITTGTIAITCTITCCTCTAAAICTIGTITGGTACA 360
                                                                                                                                                                                                                                                                                                                                      361 ATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTCCCCTGTCGTGTCAATGCTGTGTCGCCT 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421 GGTCCTATCCCAGACAAATATGGTTTATGGATCCTGCATTTATCGTTCGCCTGCTAGCA 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GAGGATTTATATACAGAGGGGGGTCAATGCTCAGTACCGCCATATTTGTCTATGCTGCT 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            121 ACATCTCCAGTGAATGGGTATTTTTGGAGGAAGTCTGTATGCCAGACAAGGAGGAAGAGA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481 ATTITACCATITIGGCTCCATCTICATAGAAAAGACTICATCGTAACATCTITCTGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       863 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 ATTGGTTCTGGATGTCAGATATTGCTGTGTGTCTCTCATTGTTATTATTGTTGCCATGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            923 GAAGATTTATATACTGAGAGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 570;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 482.8; DB 12
Pred. No. 4.8e-102;
0; Mismatches 47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TATAAGATCTA-TTATGTCTATGGCTTCAT 1431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             racaadacccacriardrercrardecrirar 570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1325, Application US/11128049 Publication No. US20060010513A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 91.6%;
Matches 522; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cricetulus griseus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-11-128-049-1325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-11-128-049-1325
                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
ORGANISM:
     1043
                                                                                                       1103
                                                                                                                                                                                                         1163
                                                                                                                                                                                                                                                                                                                1223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61
                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  541
                                                                                                    à
                                                                                                                                                   ద
                                                                                                                                                                                         ò
                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1162
                                                                                                                                                                                                                                                                                                                1282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1402
                                                                                                                                                                                                                                                                                                                                                                                                                     1283 CGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGA 1342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301 ArgerescentristricarcretritritritritritriterrecretaArcristristrisera
                                                                                                                                                                                                                                                                                                                                                                    420
                                                                                                                                                                                                                                                                                                                                                                                                                                                      481 ATTITIACCATTIGGCTCCATCTTCATTGAAATGACTTCATCGTAACATCTTTCTGGGCA 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  982
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 GAGGATTATATACAGAGAGGGATCAATGCTCAGTACCGCCATATTGTCTATGCTGCT 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181 TGGATAAAGCAGATGTTTATTGGGGCATTCCTTATTCCAGCTATGGTCTGTGGCACTGCC
                                                                                                    1103 TICTICATCAATITICATAGCCATITIATIACCATGCTTCAAGAGCCATTCCTTTTGGAACA
                                                                                                                                                        241 TTCTTCATCAACTTTATAGCCATTTATTATCAIGCCTCTAGAGCCATTCCTTTTGGAACA
                                                                                                                                                                                                              ATGGTGGCCGTTTGTTGCATCTGTTTTTTTTTTTTTTTCTTCTTCTAAATCTTGTTGGTACA
                                                                                                                                                                                                                                                                                                                                                                    361 ATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTCCCCTGTCGTGTCAATGCTGTGCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  923 GAAGATTTATATACTGAGAGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCT
                                                                                                                                                                                                                                                                                                                ATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 26.4%; Score 482.8; DB 12; Length 570; Best Local Similarity 91.6%; Pred. No. 4.8e-102; Matches 522; Conservative 0; Mismatches 47; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1403 TATAAGATCTA-TTATGTCTATGGCTTCAT 1431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     541 TACAAGACCCACTTATGTCTATGGCTTTAT 570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 4967, Application US/11128061
Publication No. US20060003958A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 7285
SOFTWARE: Patentin version 3.3
SEQ ID NO 4967
LENGTH: 570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            , ORGANISM: Cricetulus griseus
US-11-128-061-4967
                                                                                                                                                                                                            1163
                                                                                                                                                                                                                                                                                                                1223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  863
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4
     1043
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            983
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
                                                                                                                                                   셤
                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                           .
B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                 셤
                                                                                                  ò
                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                d
                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
```

```
Sequence 1309, Application US/11000688

Publication No. US20050287544A1

GENERAL INFORMATION:
APPLICANT: BERTUCCI, Francois
APPLICANT: HOULGATTE, Remi
APPLICANT: HOULGATTE, Remi
APPLICANT: HOULGATTE, Remi
APPLICANT: HOULGATTE, Remi
APPLICANT: HOURSTON GENE EXPRESSION PROFILING OF COLON CANCER WITH DNA ARRAYS
FILE REFRENCE: 1423-R-03
CURRENT APPLICATION NUMBER: US/11/000,688
CURRENT APPLICATION NUMBER: US 60/525,987
PRIOR APPLICATION NUMBER: US 60/525,987
PRIOR APPLICATION NUMBER: US 60/525,987
SOUTH APPLICATION NUMBER: US 60/525,987

NUMBER OF SEQ ID NOS: 1596
SSOID NO 1309
LENGTH: 2391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1402
                                                                                                                                                                                                                      1222
GTGGCACTGCC 1102
                                                                                                                                                                                                                                                                                                                              ATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCT 1282
                                                                                                                                                                                                                                                                                                                                                                                                                                         1283 CGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGA 1342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      996 Acriatricrogacircrangecricanaccacarircagiogrithaccarrangaarrccc 1055
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1056 regreatrerrererrareregaaregragerarearrarearraceacacacacaca 1115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421 GGTCCTATCCCAGACAAATATGGTTTATGGATCCTGCATTTATCGTTCGCCTGCTAGCA 480
                                                                                                                                                               241 ricircarcarcrirarasccarrirarrarcarsccrirasasccarrccririrgaaca 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          aagattatgctcggtacagtaaagaggaagaaatggatgatatgggtagagacctagga 788
                            301 AIGGIGGCCGTTTGTTGCATCTGTTTTTTTTTTTTTTTTCTTCCTCTAAATCTTGTTGGTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1343 ATTITACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481 ATTTTACCATTTGGCTCCATCTTCATTGAAAATGACTTCATCGTAACATCTTTCTGGGCA
                                                                                                                                                                                                                                                                                                                                                                ATACTTGGCCGAAATCTGTCAGGTCAGGCCCAACTTCCCCTGTCGTGTCAATGCTGTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               669 TCATGATGGTGATCTTCTTGGTGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 609 AATAICTIGAICCGICCTITITICAACAICGGAITCAATIGGITITICAATITICAACTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12.5%; Score 227.6; DB 12; Length 2391; 51.9%; Pred. No. 1.2e-42; tive 0; Mismatches 534; Indels 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURE:
NAME/KEY: misc feature
LOCATION: (1). (2391)
OTHER INFORMATION: transmembrane 9 superfamily member 2 (TM9SF2)
OTHER INFORMATION: gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE: OTHER INFORMATION: Description of Artificial sequences:primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1403 TATAAGATCTA-TTATGTCTATGGCTTCAT 1431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      541 rácaagacccacrirárgiciargecrirar 570
     1043 TGGATAAAGCAGATGTTTATTGGGGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 51.9 Matches 596; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-11-000-688-1309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-11-000-688-1309
                                                                                                             1103
                                                                                                                                                                                                                                                                                                                                 1223
                                                                                                                                                                                                                                                                                                                                                                                        361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
                                           ద
                                                                                                             ò
                                                                                                                                                            g
                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                                                                                                                                                        ద
                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 4967, Application US/11128049

Publication No. US2006010513A1

GENERAL INFORMATION:

APPLICANT: Melville, Mark W.

APPLICANT: Melvillam M.

APPLICANT: Hann, Louane E.

APPLICANT: Leonard, Martin S.

APPLICANT: Leonard, Mark W.

APPLICANT: Leonard, Mark W.

APPLICANT: Hann, Eugene L.

APPLICANT: Hann, Eugene L.

APPLICANT: Hann, Eugene L.

APPLICANT: Leonard, Mark W.

APPLICANT: Hann, Eugene L.

APPLICANT: Hann, Eugene L.

APPLICANT: Hann, Eugene L.

APPLICANT: Leonard, Mark W.

APPLICANT: Hann, Eugene L.

APPLICANT: Hann, Eugene L.

APPLICANT: Hann, Eugene L.

APPLICANT: Hann, Eugene L.

APPLICANT: Hann, Eugene L.

APPLICANT: Hann, Eugene L.

APPLICANT: Hann, Eugene L.

APPLICANT: Hann, Eugene L.

APPLICANT: WHOREN: US 60/570,425

PRIOR PILING DATE: 2004-05-11

NUMBER OF SEQ ID NOS: 7285

SEQ ID NO 4967

LENGTH: 570
                                                                                                             1162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1343 ATTITACCTITIGGTICAATCTTAATGAAATGTATTICATCTICACGTCTTTCTGGGCA 1402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1043 TGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCC 1102
                                                                                                                                                                                                                        1163 ATGGTGGCCGTTTGTTGCATCTGTTTTTTTTTTTTTTTCTTCTTAAATCTTGTTGGTACA 1222
                                                                                                                                                                                                                                                                                                                                   1223 ATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCCT 1282
                                                                                                                                                                                                                                                                                                                                                                                                                                            1283 CGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGA 1342
                                                                                                                                                                 241 TTCTTCATCAACTTTATAGCCATTTATTATCATGCCTCTAGAGCCATTCCTTTTGGAACA 300
                                                                                                                                                                                                                                                                          301 Argerescerrierrecarcretrriririerratretrecarcresaarcrierresaas
                                                                                                                                                                                                                                                                                                                                                                                        420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421 GETCCTATCCCAGACAAAATATGGTTTATGGATCCTGCATTTATCGTTCGCCTGCTAGCA 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            481 ATTTTACCATTTGGCTCCATCTTCATTGAAAATGACTTCATCGTAACATCTTTCTGGGCA 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      . 121 ACATCTCCAGTGAATGGGTATTTTGGAGGAAGTCTGTATGCCAGACAAGGAGGAGGAGGAGA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        923 GAAGATTTATATACTGAGAGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCT 982
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 GAGGAÍTÍTATATACAGÁGÁGÁGGATCAATGCTCAGTACCGCCATATÍTÍGÍCTATGCTGCT 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCTCATTGTTATTATTGTTGCCATGATA 60
                                  181 TGGATAAAGCAGATGTTTATTGGGGCATTCCTTATTCCAGCTATGGTCTGTGGCACTGCCC
                                                                                                                TTCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACA
                                                                                                                                                                                                                                                                                                                                                                361 ATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTCCCCTGTCGTGTCAATGCTGTGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             863 ATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 12; Length 570;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 482.8; DB 12;
Pred. No. 4.8e-102;
0; Mismatches 47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1403 TATAAGATCTA-TTATGTCTATGGCTTCAT 1431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           541 TACAAGACCCACTTATGTCTATGGCTTTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
26.4%;
Best Local Similarity 91.6%;
Matches 522; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; TYPE: DNA
, ORGANISM: Cricetulus griseus
US-11-128-049-4967
                                                                                                             1103
                                                                                                                                                            ద
                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
```

```
APPLICANT: MASUHO, YASUHIKO
TITLE OF INVENTION: Novel full length cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/11/072,512 CURRENT FILING DATE: 2005-03-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR FILING DATE: 2002-01-25
Sequence 1699, Application US/11072512
Publication No. US20060029945A1
                                                                                                                              WAKAWISU, AI
SATO, HIROYUKI
ISHII, SHIZUKO
YAWAMOTO, JUN-ICHI
ISONO, YUUKO
HIO, YURI
                                                                APPLICANT: ISOGAI, TAKAO
APPLICANT: SUGIYAMA, TOMOYASU
APPLICANT: OTSUKI, TETSUJI
                                                                                                                                                                                                                                                                                                                                         TAMECHIKA, ICHIRO
SEKI, NAOHIKO
YOSHIKAWA, TSUTOMU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: JP 2
PRIOR PILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 4096
SOFTWARE: PATENTIN VEY: 2.1
                                                                                                                                                                                                                                                                      OTSUKA, KAORU
NAGAI, KEIICHI
IRIE, RYOTARO
                                                                                                                                                                                                                                                                                                                                                                                                                                      NAGAHARI, KENJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-11-072-512-1699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             595,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 1699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        789
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     693
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   981
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ouery Match
                                                                                                                                                                                APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local
Matches S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઢ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                1085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1685
                                                                                        1164 AAGAATTTGGCTGGAAACTTGTTCATGGTGATATATTCCGTCCTCCAAGAAAGGGATGC 1223
                                                                                                                                                                                .224 TGCTATCAGTCTTTCTAGGATCCGGGACACAGATTTTAATTATGACCTTTGTGACTCTAT 1283
                                                                                                                                                                                                                                                                        TATTIGICIAIGCIGCIACGICICCAGIGAAIGGITATITIGGAGGAAGICIGIAIGCIA 1025
                                                                                                                                                                                                                                                                                                                                                                                                                                                           1463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1266 GIGICAAIGCIGIGCCICGICCIAIACCGGAGAAAAAIGCIICAIGGAGCCIGCGGITA 1325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Trgtttgcctgggtggaattttaccttttggrtcaatcttattgaaatgtatttcatct 1385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1701 GTATTATCATGGGAGGGATTTTGCCCTTTGGCTGCATCTTTATACAACTTTTCTTCATTC 1760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGG 1445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGAATAGTATTTGGTCACACCAGATGTATTACATGTTTGGCTTCCTATTTCTGGTTTA 1820
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1881 CAGAGGATTATCATTGGCAATGGCGTTCATTCCTTACGAGTGGCTTTACTGCAGTTTATT 1940
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1686 CGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTG 1745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2120
  1116 AAGATATTGCTAGATATAATCAGATGGACTCTACGGAAGATGCCCAG-------G 1163
                                                                                                                                                                                                                                                                                                                                                                 regrecrerecegecrecececececedecrecerecerecedecrecedes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1524 CTATTCCTTTTGGGACACTGGTTGCCATATTGGCCCTTTGGTTCTGCATATCTGTGCCTC 1583
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GAACCAATCAGATTCCACGTCAGATTCCTGAACAGTCGTTCTACACGAAGCCCTTGCCTG 1700
                                                                                                                                                                                                                                TTGTTGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTAC---AGCCA 965
                                                                                                                                     TATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTA
                                                                                                                                                                                                                                                                                                                                                                                                              1026 GACAAGGAGGAAGGAGATGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                           1404 CCTTTGGAGGTGAGAAGTGGAAAACAAATGTTTTATTAACATCATTTCTTTGTCCTGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGGTGTGGCACTGCCTTCTTCATCATTTCATAGCCATTTATTACCATGCTTCAAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1584 reacgritaritéciecaracritécitritaagaadaareccarreaacac---ceagric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTATCCTGTGCATTGTGACTGTGTGTGTGTGTGTGTGCACATATTTTCTACTAAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1821 icairrigerrárraccrefrengaagcaacharacírerregerarriccacciargi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u> caarrergraciririsgriariaceargaraargerrrrgarcrirerrrrraeaggaa</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAATTGGCTTCTTTGCTTTTTGGTTTTGTTTACCAAATATACAGTGGTGGTGAAGGTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITACATGTATTCCTTTTACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1746 ACTAGAGA 1753
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACTGAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1326
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2061
                                                                                                                                     849
                                                                                                                                                                                                                             606
                                                                                                                                                                                                                                                                        1284
                                                                                                                                                                                                                                                                                                                        996
                                                                                                                                                                                                                                                                                                                                                                   1344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1086
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1506
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1566
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2121
```

rirricecrisesarrirrigicaccieccaacceaececreargacererefers TATITIGICIANGCIGCTACGICTCCAGIGAAIGGITATITIGGAGGAAGICIGIAIGCIA 1025 ccrrredadegreadadegadadadadaterrirarrancarcarrirrerrerega 1160 861 AAGAATTIGGCIGGAAACTIGITCAIGGIGATATATICCGICCICCAAGAAAAGGGAIGC 920 actatatricugaagictatacccacatricagiggitaagatrataartricc AAGATTATGCTCGGTACAGTAAAGAGGAAGAATTGGATGATATGGATAGAGACCTAGGAG TATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTA TTGTTGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCAGTAC---AGCCA 921 recrarcaererrerasearceseacacadarrrraarrareacerrrereacrerar resrecrerecrecresecacecerecreseserarerrecreseserarrarana GACAAGGAGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTA TCATGATGGTGATCTTCTTGGTGGCTTTAGTTTCAATGATTTTTAATGAACATTAAGAA 753 IGGICAITGITCICITCITAICIGAAIGGIAGCIAIGAITAIGITACGGACACIGCACA ATGAATATGGAAGGCAAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGA 609 AATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCT 18; Length 1878; 813 AAGATATTGCTAGATATAATCAGATGGACTCTACGGAAGATGCCCAG----Score 226; DB 9; Pred. No. 2.6e-42; 0; Mismatches 535; 12.4%; 51.8%; Conservative 1101

RESULT 6 US-11-072-512-1699

us-10-755-466-3.rnpbn

```
US-11-240-769-50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 8
US-11-240-769-49
                                                                                                                                                                                                         69
                                                                                                                                                                                                                                                                                                                                                                                  1043
                                                                                                                                                                                                                                                                                                                                                                                                                                                       1103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            906
                                                                                                   ઠે
                                                                                                                                  셤
                                                                                                                                                                      ò
                                                                                                                                                                                                     ద
                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ଌ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                     1205
                                                                                                   1280
                                                                                                                                                                     1281 reacgritaritegrecaractritegritaria ana de de contra de la 1337
                                                                                                                                                                                                                                                                            1326 TIGITIGCCIGGGRATITIRCCTTTTGGTTCAATCTTAATGAAATGTATTTCATCT 1385
                                                                                                                                                                                                                                                                                                                                                                            1458 TGAATAGTATTTGGTCACACAGATGTATTACATGTTTTGGCTTCCTATTTCTGGTGTTTA 1517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1566 TITACATGIATICCTTTTACTACTATTTTTCAAACAAAGATGTATGGCTTATTTCAAA 1625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1686 CGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAATTG 1745
                                                                                                                                      TAAATCTTGTTGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTC 1265
                                                                                                                                                                                                         GTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGGAGCCTGCGGTTA 1325
                                                                                                                                                                                                                                          1338 GAACCAATCAGATTCCACGTCAGATTCCTGAACAGTCGTTCTACACGAAGCCCTTGCCTG 1397
                                                                                                                                                                                                                                                                                                             1398 GTATTATCATGGGGATTTTGCCCTTTGGCTGCATCTTTATACAACTTTTCTTCATTC 1457
                                                                                                                                                                                                                                                                                                                                                 TCACGICTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGG 1445
                                                                                                                                                                                                                                                                                                                                                                                                                    1518 TCATTTTGGTTATTACCTGTTCTGAAGCAACTATACTTCTTTGCTATTTCCACCTATGTG 1577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATG 1565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1578 CAGAGGATTATCATTGGCAATGGCGTTCATTCCTTACGAGTGGCTTTACTGCAGTTTATT 1637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1685
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1817
 TGGTGTGTGGCCACTGCCTTCATCAATTTCATAGCCATTTATTACCATGCTTCAAGAG
                                                                 1626 CATCATTTTACTTTGGATATATGGCGGTATTTAGCACACCCTTGGGGATAATGTGTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCTTAATCTATGCAGTACACTACTTCTTTTCAAAACTGCAGATCACGGGAACAGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1758 CAATTGGCTTCTTTGTATGCTTTTGGTTTGTTACCAAATATACAGTGGGGGTGAAGGTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NEASOLI / 11-240-769-50

Sequence 50, Application US/11240769

Publication No. US20060036089A1

GENERAL INFORMATION:
APPLICANT: Soppet et al.
ITLE OF INVENTION: 33 Human Secreted Proteins
FILE REFERENCE: PZ037PLC2
CURRENT APPLICATION NUMBER: US/11/240,769
CURRENT FILING DATE: 2005-10-03
PRIOR APPLICATION NUMBER: 09/997,131
PRIOR APPLICATION NUMBER: 09/628,508
PRIOR PILING DATE: 2000-07-28
PRIOR PILING DATE: 2000-07-28
PRIOR PILING DATE: 2000-07-88
PRIOR PILING DATE: 1099-02-10
PRIOR PILING DATE: 1099-02-10
PRIOR PILING DATE: 1099-02-10
SPIOR PILING DATE: 1099-02-10
INWHER OF SEQ ID NOS: 173
SOFTWARE: PATCHIN VET: 2.0
SEQ ID NO 50
LENGTH: 1094
TYPE: DNA
CREANISM: Homo saptiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1818 ACTGAAGA 1825
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1746 ACTAGAGA 1753
9801
                                                                                                                                      1206
                                                                                                                                                                                                         1266
                                                                                                                                                                                                                                                                                                                                               1386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1638
                                                                                                                                                                                                                                                                                                                                                                                                                    1446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1506
                                                                                                셤
                                                                 ઠે
                                                                                                                                      ò
                                                                                                                                                                   g
                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                  셤
```

```
1102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1642
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    983 ACGICTCCAGIGAAIGGITAITITIGAAGAAGICIGIAIGCIAGACAAGGAGGAAGGAGA 1042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1223 ATACTIGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGCTGTGCTT 1282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1403 TATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTTGTTCTGTGTGTTGTG 1462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          982
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              309 Trcgrarrgaarrgcrrcarrrggggaaagcacrcarcaggagcggrgcccrrrrcacc 368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          925
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      129 ATGCTGTCGCCTCCAGCGGGGAGCTCTCATGACCACAGCCTGCTTCCTCTTCATGTTC 188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       249 regaagaaaagccrrcrrgraceechacrcrrgracecreereresrrrrreechrerer 308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   905
                                                                                                                                                                                                                                                                                                                                                                                                68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                866 GGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGTTGCAATGATAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    806 CAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCCTCTGTGATT
                                                                                                                                                                                                                                                                                                                                                              9 CCGGTGCACGCGACGTCTTCAGGCCCCCCAGTACCCCATGATCCTCAGCTCCTGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 926 GATTTATATACTGAGA---GGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             189 Arcecegrerirescecaririrerecrescereirererececaerranna de contese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TICTICATCAATITCATAGCCATTTATTACCATGCTTCAAGAGCCCATTCCTTTTGGAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              369 Artegreecrerecretecatere-errecedarerecereceregreary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1343 ATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       546 Archigederinegegedeanghicandageneinerrehendageneinenegag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  726 regregadahrirchagrereeggeserereehricheeregrerahrangeehre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1583 TACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   846 racacciccricarcercriterccriterescriecraaccestracarccarccarcescriterareca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    428 cráciriosecrroceanascas - contatoácanocororos estados en estados estados en estados estados en estados estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en estados en entre en estados en estados en estados en estados en estados en entre en estados en estados en estados en estados en estados en entre en estados en entre en estados en entre en estados en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre en entre entre en entre en entre en entre entre en entre en entre en entre entre en entre en entre entre entre en entre entre entre entre entre en entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    486 cescagarceceaeceaeceresraciacaacearrrereresecarecereaese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              606 AArcachtriatriaccrichriescritericrierrecriterratearcarcarcasersaree
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        666 retreacaaareacarestearestaractrecaecterestecaeacatraceeres
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  786 irriarirogiraacaacaccacacacacarecacricarccccrcrcrcrcrrisec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1643 TATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGGAGCGATTGGTTACATGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1463 ACTGTCTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1523 CAATGGACAAGTTTTCTCTCCTGCTGCAACTGCAATCTATGTTTACATGTATTCCTTT
                                                                                                                                      Gaps
                                                                                                                                      9
                    Length 1094;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1703 ACAAGTGCCTTTGTCCGAAAATCTATACTAATGTGAAAATTGACT 1748
                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCTACATGTTTGTTCGCAAGATCTATGCTGCTGTGGAGATAGACT
             Score 190.4; DB 9;
Pred. No. 3.7e-34;
0; Mismatches 446;
                    10.4%;
52.2%;
Query Match
Best Local Similarity 52.2
Matches 494; Conservative
```

```
1455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1301 CTGGGAGAATCAGTTCTATTACCTCTTTGGCTTCCTGTTCCTTGTTTTCATCATCCTGGT 1360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1421 cciecricarcardana de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la contracta de la c
       1336 GGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGTCTTT 1395
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1361 GETATCCTGTTCACAATCAGCATCGTCATGGTGTACTTCCAGCTGTGTGCAGAGATTA 1420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 735
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       640 recearcraciaciancia de descritoria de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de consecuencia de cons
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 676 GGTGATCTTCGTGGGCTTAGTTTCAATGATTTAATGAGAACATTAAGAAAAGATTA
                                                                                                                                                                                                                                                                                                                                                                              1242 gicricionitrici de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra del la contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della contra della con
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                580 gercricricriercagerarccicaecardarrarcarregacerccicedaagacar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGCTCGGTACAGTAAAAGAGGAAGAATGGATGATATGGATAGGAGACCTAGGAGATGAATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1456 CATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAATAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          616 IGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTTCAATTTTCAACTCCTTCATGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          520 TTACCTGACCATGAGTGACGTCCAGATCCACTGGTTTTCTATCATTAACTCCGTTGTTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 169.4; DB 9; Length 1816;
Pred. No. 3.4e-29;
7; Mismatches 448; Indels 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21, Application US/11240769; Publication No. US20060036089A1; GENERAL INFORMATION:

APPLICANT: Soppet et al.
TITLE OF INVENTION: 33 Human Secreted Proteins; TILLE REPERENCE: PS037P1C.
CURRENT APPLICATION NUMBER: US/11/240,769; CURRENT FILING DATE: 2005-10-03; FRIOR APPLICATION NUMBER: 09/997,131; PRIOR APPLICATION NUMBER: 09/628,508; PRIOR FILING DATE: 2000-07-28; PRIOR FILING DATE: 2000-07-28; PRIOR PILING DATE: 2000-07-28; PRIOR FILING DATE: 2000-07-28; PRIOR FILING DATE: 1000-02-08; PRIOR FILING DATE: 1000-02-08; PRIOR FILING DATE: 1999-02-10; NUMBER OF SEQ ID NOS: 173; SOFTWARE: PATCHTON NUMBER: 60/119,468; PRIOR FILING DATE: 1999-02-10; NUMBER OF SEQ ID NOS: 173; SOFTWARE: PATCHTING VALUE: 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TICCITITACTACTATITITICAA 1599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1481 recentritritritritada 1504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: SITE
LOCATION: (504)
OTHER INFORMATION: n equals a,t,g, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             n equals a,t,g, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity 52.0
Matches 514; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; LOCATION: (1405)
; OTHER INFORMATION:
US-11-240-769-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY: SITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1396
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEC ID NO 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        736
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE
                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ਰ"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1095
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      976 TGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGAGG 1035
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1064
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1124 TGGGCTACTACTTCGGCTTCCGAAAGCAG--CCATATGACAACCCTGTGCGCACCAACCA 1181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             739
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             944
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1276 TGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTTGCCT 1335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            597 TTCTTCCTGTCAGGTATCCTGAGCATGATTATCATTCGGACCCTCCGGAAGGACATTGCC 656
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   657 AACTACAACAAGGAGGATGACATTGA------AGACACCATGGAGGAGTCTGGG 704
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 764
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTCTCATCGTTATTATTGCAAT 918
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               919 GATAGAAGATTTATATATACTGAGA---GGGGATCAATGCTCAGTACAGCCATATTTGTCTA 975
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      884
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CCGTCCTTTTTTCAACATCGGATTCATTGGTTTTTCAATTTTCAACTCCTTCATGATGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             creaccareagreacerccaearccacrestriricaaraacrestrerererere
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGAATATGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 redalactricaredeceses de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la reconstruction de la rec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        deringegangeriereecereeagecegagerererieareaceacagecrieerirerir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             885 CATGTTCATGGGGGTGTTTGGCGGATTTTTCTGCTGGCCGTCTGTACCGCACTTTAAAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1036 AAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    945 CCATCGGTGGAAGAAGGAGCCTTCTGTACGCCAACTCTGTACCCTGGTGTGGTTTTTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1005 CATCTGCTTCGTATTGAATTGCTTCATTTGGGGAAAGCACTCATCAGGAGCGGTGCCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1065 receacearegreserereresearers-erressarereceresearer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1216 TGGTACAATACTTGGCCGAAATCTGTCAGGTCAGCCCAACTTTCCTTGTCGTGTCAATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGGAAACAGGTGCATGGAGATGTATTTA-GACCATCAAGTCACCCACTGATATTTTCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CACTGCCTTCTTCATCATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 172; DB 9; Length 1821;
Pred. No. 8.5e-30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Mismatches 445; Indels
                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: 33 Human Secreted Proteins
FILE REFERENCE: PZ037P1C2
CURRENT APPLICATION NUMBER: US/11/240,769
CURRENT FILING DATE: 2005-10-03
PRIOR PELICATION NUMBER: 09/997,131
PRIOR PELICATION NUMBER: 09/628,508
PRIOR PLILING DATE: 2000-07-28
PRIOR APPLICATION NUMBER: PCT/US00/03062
PRIOR APPLICATION NUMBER: 60/119,468
PRIOR PELING DATE: 1099-02-10
PRIOR FILING DATE: 1999-02-10
PRIOR FILING DATE: 1999-02-10
Sequence 49, Application US/11240769
Publication No. US20060036089A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 52.7
Matches 519; Conservative
                                                                                                                                                                                                                                      APPLICANT: Soppet et al.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-240-769-49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 705
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                765
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  800
```

ò

셤 ò 유 ò g ò δ 셤 ò

ਨੇ

8

ઠે

ö

```
Sequence 478, Application US/10932182A
Publication No. US20060046253A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             , ORGANISM: Saccharomyces pastorianus US-10-932-182A-478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6.8%;
                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 86.0%;
Matches 153; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: Patentin version 3.3
SEQ ID NO 478
LENGTH: 2019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                             ; ORGANISM: Homo sapiens
US-09-925-065A-724812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-932-182A-478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches 567;
                                                                                                                                                                                                                                                                                                                                                                                                                         1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      650
                                                                                                                                                                            TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                        ઠ
                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                     972 TCTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAG 1031
                                                                                                                                                                                                                                                                                                                                                                                                                                            1047
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1048 CCTTTCCCACCATGGTGGCTCTGCTGTGCATGTG-GTTCGGGGATCTCCCTGCCCCTCGTC 1106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1225 TCATGGCTGGGATCTTGCCCTTCGGCGCCATGTTCATCGAGCTCTTCTTCATCTTCAGTG 1284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1285 CTATCTGGGAGAATCAGTTCTATTACCTCTTTGGCTTCCTGKTCCTTGGTTTCATCATCC 1344
                                                                                                                                                                                                                                                                                                                   .032 GAGGAAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGT 1091
                                                                                                                                                                                                                                                                                                                                                                                                 1092 GTGGCACTGCCTTCTTCATCATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTC 1151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATGCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGGAGCCTGCGGTTATTGTTT 1331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1165 ACCAGATTCCCCGGCAGATCCCCGAGCGGTGGTACATGAACCGATTTGTGGGCATCC 1224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTATTTCATCTTCACGT 1391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1392 CTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCC 1451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1452 TGTGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTTTTACTAAATGCAGAAG 1511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1345 TGGTGGKATCCTGKTCACAAATCAGCATCGTCATGGTGKACTTCCARCTGTGTGCAAGGG 1404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1512 -ATTACCGGTGGCAATGGACAAGTTTTCTCTGCTGCTACAACTGCAATCTATGTTTAC 1570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   987
                                                                              914
                                                                                                                                                                                           927
                                                                                                               748 GCTCCCTGCTGGCCTCAGGCATTCAGCTGTTCTGTATGATCCTCATCGTCATCTTTGTAG 807
                                                                                                                                                     915 CAATGATAGAAGATTTATATACTGAGA---GGGGATCAATGCTCAGTACAGCCATATTTG 971
  854
                               868 TCTTCATGTTCATGGGGGTGTTTGGCGGATTTTCTGCTGGCGGTCTGTACCGCACTTTAA
TGGATGGAAACAGGTGCATGGAGATGTATTTA-GACCATCAAGTCACCACTGATATTTT
                                                                                                                                                                                                                                                                                                                                                         1212 TIGITGGIACATACTIGGCCGAAATCTGICAGGTCAGCCCAACTITCCTTGICGTGTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1107 iactricescraciaciricescrrcceaascas--ccarareacaaccrereceaca
                                                                                                                                                                                                                                                                                                                                                                                                                                       988 Trescarcrectresfarreaarrectreatresseaaascacreateasdasses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; Sequence 724812, Application US/09925065A; Dublication No. US20040181048A1; Publication No. US20040181048A1; Publication No. US20040181048A1; Publication No. US20040181048A1; APPLICANT: Wang, David G.; TITLE OF INVENTION: Identification and Mapping of Single; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome; FILE REFERENCE: 10897.135; CURRENT APPLICATION NUMBER: US/09/925,065A; CURRENT PILING DATE: 2001-08-08; PRIOR FPLING DATE: 2000-10-24; PRIOR PILING DATE: 2000-10-24; PRIOR PILING DATE: 2000-11-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1571 ATGTATTCCTTTTACTACTATTTTTCAA 1599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTTTATGCCATCTTTWATTTCGTTAACAA 1493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SULT 10
-09-925-065A-724812/c
                                                                         855 (
                                                                                                                                                                                             808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1465
                               셤
                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                         요
                                                                         ð
                                                                                                                                                     ò
                                                                                                                                                                                       셤
                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
```

```
1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCAGATGTTTATTGGGGCATTCCTTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCAT 1110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ----CTTCAC 1038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              876
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            710 TTAATGAGAACATTAAGAAAAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGAT 769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CAATTICATAGCCATTIATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTG 1168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        630 CAATTTCATAGCCATTTATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTG 573
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               817 GATAAAGATAATGACGTGTATTTTACCTACTCCGTCAAATTCATTGCTTCTGATACAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           877 TGGGCTACAAGATGGGACAAGTATCTACAT----ATTTATGATCCGCAAATTCAATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            530 GTTCCAAATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITICAATITICAACTCCTTCATGATGGTGATCTTCTTGGTGGGCCTTAGTTTCAATGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITGAAGATCGATITGACAAATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    931 İTTİCITİAATITAAITICICCATCATCATCATITIACİATCATCTGTGGİTATICATICT
                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: NAKAO, YOSHIHIRO
APPLICANT: NAKAWIKA, NORIHISA
APPLICANT: KODAMA, YUKIKO
APPLICANT: FUJIMURA, TOMOKO
APPLICANT: FUJIMURA, TOSHIHIKO
APPLICANT: FUJIMURA, TOSHIHIKO
TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
FILE REFERENCE: 030685-043
                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 2019;
                                                                                                                                                                                                                                                                                                                                                                                  Length 1251;
                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       991 ATACTTCGGGCTGTGAAGAGTGATTTTGCCCGTTATAACGAA----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 124.4; DB 7;
Pred. No. 9.5e-19;
0; Mismatches 631;
                                                                                                                                                                                                                                                                                                                                                                             Score 138; DB 6;
Pred. No. 5.5e-22;
0; Mismatches 25;
PRIOR APPLICATION NUMBER: US 60/250,092
PRIOR FILING DATE: 2000-11-30
PRIOR PILING DATE: 2001-01-16
PRIOR PILING DATE: 2001-01-16
PRIOR PILING DATE: 2001-01-6
PRIOR PILING DATE: 2001-05-09
NUMBER OF SEQ ID NOS: 957086
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 724812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE: 030685-043
CURRENT APPLICATION NUMBER: US/10/932,182A
CURRENT FILING DATE: 2004-09-02
NUMBER OF SEQ ID NOS: 197023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
```

```
991 ATACTTCGGGCTGTGAAGAGTGATTTTGCCCGTTATAACGAA-------CTTCAC 1038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1339 ccaarccrecrecesesarrrrrerarrarastascaarcarcrerrarra 1398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           rccargedrgrcraragrrrrrccarddaccrrarriddaagccraarrridaraarrraca 1338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTTTCGGTGTCTATTCCATTGTCGTTTGCTGGTTCATATATTGCCTACAAAAAGTGTAAA 1518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                877 IGGGCTACAAGATGGGACAAGTATCTACAT-----ATTTATGATCCGCAAATTCAATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1039 CTAGATAATGAATTTCATGAGGATACTGGTTGGAAATTAGGTCATGGTGATGTATTTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1007 GGAGGAAGTCTGTATGCTAGACAAGGAGGAAGGAGATGGATAAAGCAGATGTTTATTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               530 GTTCCAAATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                590 TTTGAAGATCGATTTGACAAATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          650 TITICAATITICAACTCCTTCATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      830 CCATCAAGTCACCCACTGATATTTTCCTCTGATTGGTTCTGGATGTCAGATATTTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1099 ACATCATCTAAATCAATGGTGTTATCTGTGCTCGTGGGTTCAGGTATTCAATTATTTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1159 ardarcarargradcaritricririderidearriadgeerregrareaegerreaadage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                947 TCAATGCTCAGTACAGCCATATTTGTCTATGCTGCTACGTCTCCCAGTGAATGGTTATTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1067 GCATTCCTTATCCCAGCTATGGTGTGGCCACTGCCTTCTTCATCAATTTCATAGCCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1399 rerececagrecicegererececageaagaacecrerirricaraarcricerares
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            817 GATAAAGATAATGACGTGTATTTTACCTACTCCGTCAAATTCATTGCTTCTGATACAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       931 ririctriaarraarraciccarcarcarrarraraciarcarcrererer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    710 TTAATGAGAACATTAAGAAAAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTGTCTCT---CATCGTTATTATTGTTGCAATGATAGAAGATTTATATACTGAGAGGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATGGATAGAGACCTAGGAGGATGAATATGGATGGAAACAGGTGCATGGAGATGTATTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rerrieceaaccerearerrerreireirekeeearrarreecerrreragiaerrerraraer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATCTGT
                                                                                                                                                                                          OF INDUSTRIAL YEASTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 2019;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                             APPLICANT: KODAMA, YUKIKO
APPLICANT: FUJIMURA, TOMOKO
APPLICANT: ASHIKARI, TOSHIHIKO
TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF
FILE REFERENCE: 030685-043
CURRENT APPLICATION NUMBER: US/10/932,182A
CURRENT APPLICATION NUMBER: US/10/932,182A
CURRENT PILING DATE: 2004-09-02
NUMBER OF SEQ ID NOS: 197023
SOFTWARE: PATENTIN VETBION 3.3
SEQ ID NO 478
LENGTH: 2019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ouery Match 6.8%; Score 124.4; DB 7; Best Local Similarity 46.4%; Pred. No. 9.5e-19; Matches 567; Conservative 0; Mismatches 631;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Saccharomyces pastorianus
                           APPLICANT: NAKAO, YOSHIHIRO
APPLICANT: NAKAMURA, NORIHISA
APPLICANT: KODAMA, YUKIKO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-932-182A-478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            770
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1219
                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                    1006
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1606
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1666
                                            1039 CTAGATAATGAATTTCATGAGGATACTGGTTGGAAATTAGGTCATGGGAGTGTATTAGA 1098
                                                                                                                                                                                   1159 Argarcarargradcarrrrrcrrrdcrdcarraggccrcgrarcaccaggracaaaaaagg 1218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1007 GGAGGAAGTCTGTATGCTAGACAAGGAAGGAGATGGATAAAGCAGATGTTTATTGGG 1066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITITITGITATICTICCTCTAAAICTTGTIGGTACAAIACITGGCCGAAAICTGTCAGGI 1246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Trircesierchafricantercenfierestricanarafiectracaaaastenaa 1518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGGGATGAACATCCAACAAAAACCAGATTGCTCGACAAAGTCCATTTCAGCCTTGG 1578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGTT---TGGGATGTTCAGTTTATATGTTCATCCATGCAATATTATTTACAAATTCAAA 1875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTGGGGATAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATC 1726
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1995
829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCCATGGGTGTCTATAAGTTTTTCCATGGACCTTATTGGAAGGCTAATTTGATAATTACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCAATCCTGCTTCCTGGCGCAATTTTTCTATTAATAGTAGCAATGAACTTCTTATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TACTTAAGGACAACACAGGCAACCCTTATTGCAGGCATTTTCTCTTTTTGGTTCAATAGCC
ATGGATAGAGACCTAGGAGATGAATATGGATGGAACAGGTGCATGGAGATGTATTTAGA
                                                                                                                         CCATCAAGTCACCCACTGATATTTTCCTCTGATTGGTTCTGGATGTCAGATATTTGCT
                                                                                                                                                                                                                                                       TCAATGCTCAGTACAGCCATATTTGTCTATGCTGCTACGTCTCCAGTGAATGGTTATTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCTTTGCCAACCGTGATGTTTGTTTTACGCATTATTCGGCTTTGTAGGTTCTTATACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCATTCCTTATCCCAGCTATGGTGTGTGCCACTGCCTTCTTCATCAATTTCATAGCCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TATTACCATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCGGCCGTTTGTTGCATCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rerigegeágrecricagaratraccaga ada a construtron a a a construcción de a construcción de a construcción de a construcción de a construcción de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actual de actua
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1247 CAGCCCAACTTTCCTTGTCGTGTCATGCTGTGCCTCGTCCTATACCGGAGAAAATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TTCATGGAGCCTGCGGTTATTGTTTTGCCTGGGTGGAATTTTTACCTTTTGGTTCAATCTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Grigaarrararricarrracrccagrirargerrcaacaagarrrrrgargerrrigg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTTCTACTCTTTTCATTTTTGTTGCTGACTTTAACAACCTCATTGGTAACTATTTTCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACGTATCATTCATTATGTTTGGAAAATTGGTTGTGGCAGTGGAGGAGTTTTATTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1607 ATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1936 TGTTGCGTTGTCACAGGGGCGATCGGCTTTTTCAGTAGCATGATATTCATTAGAAGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TATACTAATGTGAAAATTGACT 1748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TATTCTAGAGTTAAAGTCGAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1819
                                                                                                                                                                                                                                                       890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1067
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1759
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1727
                                            엄
                                                                                                                      ò
                                                                                                                                                                      요
                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ⋩
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
```

709

Gaps

24;

1519 TGGGATGAACATCCAACAAAAACAAAACCAGATTGCTCGACAAAGTCCATTTCAGCCTTGG 1578

CAGCCCAACTITICCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAATGG

ઠે a

US-10-932-182A-478 ; Sequence 478, Application US/10932182A ; Publication No. US20060046253A1

```
rgrafifiralitacacaagiligicgincaafaagafilictacafgircgggfircfat 1711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITITICATICCITITATICACGINGACAACCICGITGGICACIGIAATGATCACTIAIC 1771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGA 1673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TAATGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTA 1733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TAGTAACTGGATCAATCGGTTTCATTAGCAGCATGTTCTTTTATTAGAAGATTTACTCAT 2008
1232 ccaceerrarerrararecerrarrieearrrerregricriacacarccares 1291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAACICTACCGGCIACITIAAIIGCIGGIAITITICCCCITICGGIICTAITGCCGIIGAAI 1651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1829 TCGGTTGCGCCCTGTATGATTTATCCATTCCATTCTATTCACTAAATTTAAGTTAGGTG 1888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1292 GTATCTACAAATTTTTCGATGGTCCATACTGGAAGGCAAATGTGATCATGACCCCGGCTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1412 ATTCTTCTGGTGTTATTCCAGCAAGTACTTTGTTTTTTATGGTATTCTTATGGTTTTTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1314 AGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAA
                                                                                                                                                                                                                                                                                                                                                                                            CTIGIAGIATITITITICCECATIAGGITTCCTATCACCTAGCTCTAGAGGCTCGTTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TIATICITICCICIAAAICITIGGIACAAJACITIGGCCGAAAICTGTCAGGTCAGCCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1472 icrccairccarracaarracraghrancaaraaraaraaraa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACTITICCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAAATGGTTCATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGCATCCAACGAAACGAACCAAATTGCAAGACAAATCCCCTTCCAACCTTGGTATCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1772 atrogriargectagaaacregaagregeaaregagegegarrare---eregagere
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTTCAAAACAAAGATGTATG
                                                                                                                                                                                                                                                                    éccionaria de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra del la contra del la contra del la contra del la contra del la contra de la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la co
                                                                                                                                                                                                                                                                                                                                   897 ICATCGTTATTATTGTTGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GICTGIATGCTAGACAAGGAAGGAGATGCATAAAGCAGATGTTTATTGGGGCATTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TAGITICCTGGAGCIATICIACIAGIAAICATIGCACIGAACITITITCITAAIGITIGICC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGA
                                                                                                                                                                                                              GICACCCACTGATATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTACAGCCATATITGTCTATGCTGCTACGTCTCCAGTGAATGGTTATITTGGAGGAA---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTATCCCAGCTATGGTGTGTGGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1434 IGCTGGTGCTGGTTAICCTGTGCAITGTGACTGTCTGTGTGACTAITGTGTGCACATAII
                                                                                        777 GAGACCTAGGAGATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAA
                                                                                                                                              1734 ATGTGAAAATTGACTA 1749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ccarcaaagragarra 2024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1352
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1652
                                                                                                                                                                                                                 837
                                                                                                                                                                                                                                                                          1112
                                                                                                                                                                                                                                                                                                                                                                                               1172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1014
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1674
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2009
                                                                                                                                                                                                                                                                                                                                                                                                                                                            957
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT
                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ద
                                                                                           δ
                                                                                                                                              셤
                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       å
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                        1426
                                                                                                                                                                                                                 1698
                                                                                                                                                                                                                                                                             1486
                                                                                                                                                                                                                                                                                                                                   rirciacritiricaritrigrigitidacritiaacaaccrcaritegraacraritricari 1758
                                                                                                                                                                                                                                                                                                                                                                                               ACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCT .1546
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACGTATCATTCATTATGTTTGGAAATTGGTTGTGGCAGTGGAGGAGTTTTATTATTGGT 1818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1547 GCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTTTCAAAACAAAG 1606
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGTT---TGGGATGTTCAGTTTATATGTTCATCCATGCAATATTATTTACAAATTCAAA 1875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCC 1666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CICGGIGGATICGICACAAICAIACIGIAIGIIGGAIAITICAITIAIGAIAICTGIGCIA 1935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTGGGGATAATGTGGGGGGGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATC 1726
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGTTGCGTTGTCACAGGGGGGATCGGCTTTTTCAGTAGCATGATATTCATTAGAAAGATT 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          537 ATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAG 596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        959
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    943
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITICAACTCCTTCATGATGGTGATCTTCTTGGTGGCCTTAGTTTCAATGATTTTAATGA 716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   717 GAACATTAAGAAAAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGTATGGATA 776
                                                                                        TACTTAAGGACAACAGGCAACCCTTATTGCAGGCATTTTCTCTTTTGGTTCAATAGCC
                                                                                                                                                                                                              1639 GTTGAATTATATTTCATTTACTCCAGTTTATGGTTCAACAAGAATTTTTTGTATGTTTGGT
                                                                                                                                                                                                                                                                          597 ATCGATTTGACAAATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTTCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        390 CCAGATGGGACAAATATTTACA-----CGTTTATGATCCTTCTATCCAATGGTTCTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATAATGAAGTTTATTTACCTATTCGGTTAAATTCGAGGAATCCCCCACTTCATGGGCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: NAKAO, YOSHIHIRO
APPLICANT: NAKAO, YOSHIHIRO
APPLICANT: NAKAWIRA, NORIHISA
APPLICANT: KODAWA, YUKIKO
APPLICANT: KODAWA, YUKIKO
APPLICANT: TUJIKURA, TOWOKO
APPLICANT: ASHIKARI, TOSHIHIKO
TITLE OF INVENTION METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
FILE REPERENCE: 030685-043.
CURRENT APPLICATION NUMBER: 2004-09-02
NUMBER OF SEQ ID NOS: 197023
SOFTWARE: PATENTIN VERSION 3.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 120; DB 7; Length 20 Pred. No. 1e-17; 0; Mismatches 630; Indels
                                  TTCATGGAGCCTGCGGTTATTGTTTGCCTGGGTGGAATTTTACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 4690, Application US/10932182A
Publication No. US20060046253A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TATACTAATGTGAAAATTGACT 1748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TATTCTAGAGTTAAAGTCGAGT 2017
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Saccharomyces pastorianus US-10-932-182A-4690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 46.2'
Matches 562; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 13
US-10-932-182A-4690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 4690
LENGTH: 2025
                                                                                                                                                     1367
                                                                                                                                                                                                                                                                          1427
                                                                                                                                                                                                                                                                                                                                   1699
                                                                                                                                                                                                                                                                                                                                                                                                  1487
                                                                                                                                                                                                                                                                                                                                                                                                                                                            1759
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1876
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1727
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA
                                                                                                                                                 ò
                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                        요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
```

```
APPLICANT: HOUGATTE, Remi
APPLICANT: BIRNBAUM, Daniel
TITLE OF INVENTION: GENE EXPRESSION PROFILING OF COLON CANCER WITH DNA ARRAYS
FILE REPERENCE: 1423-R-03
CURRENT APPLICATION NUMBER: US/11/000,688
CURRENT FILING DATE: 2004-12-01
1254 ACTITCCTTGTCGTGTCAATGCTGTGCCTCGTCCTATACCGGAGAAAAATGGTTCATGG 1313
                                            1532 AGCATCCAACGAAACGAACCAAATTGCAAGACAAATCCCCTTCCAACCTTGGTATCTGA 1591
                                                                                                 AGCCIGCGGTTATIGTTIGCCIGGGTGGAATTITTACCTTTTGGTTCAATCTTTATTGAAA 1373
                                                                                                                                                                                               TGTATTTCATCTTCACGTCTTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGA 1433
                                                                                                                                                                                                                                            rerarrrrarracacaaerrrereerrearaaearrrreracarerreseerrrrar 1711
                                                                                                                                                                                                                                                                                                                                             1712 TITITICATICCTTTATICACGTICACAACCTCGTIGGTCACTGAATGATCACTTATC 1771
                                                                                                                                                                                                                                                                                                                                                                                               1494 ITCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAA 1553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1614 GCTTATTTCAAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGA 1673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1674 TAATGTGTGGAGCGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTA 1733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1949 TAGTAACTGGATCAATCGGTTTCATTAGCAGCATGTTCTTTATTAGAAAGATTTACTCAT 2008
                                                                                                                                             AAACTCTACCGGCTACTTTAATTGCTGGTATTTTCCCCTTCGGTTCTATTGCCGTTGAAT 1651
                                                                                                                                                                                                                                                                                                                                                                                                                                              1772 ATTCGTTATGCCTAGAAACTGGAAGTGGAATGGAGGGGATTTATC---GTCGGAGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1829 regerrececrerarerarriarecarrecarrerarrearraarrraagric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1889 GATTCGTTACCATTGTTTTTGTACTTGGGATATTCTTCTGTTATTTCATTGCTATGTTGTT
                                                                                                                                                                                                                                                                                                1554 CIGCAAICTAIGITTACAIGTAITCCTTTTACTACTATTTTTCAAAACAAAGAIGTAIG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCATION: (1)...(424)
OTHER INFORMATION: 3' terminal sequence from clone
OTHER INFORMATION: image:546351. transmembrane 9 superfamily member
OTHER INFORMATION: 2 (TM9SF2).gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 101.6; DB 12; Length 424;
Pred. No. 9.4e-14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: Description of Artificial sequences:primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: US 60/525,987
PRIOR FILING DATE: 2003-12-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1308, Application US/11000688
Publication No. US20050287544A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ģ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1734 ATGTGAAATTGACTA 1749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2009 CCATCAAAGTAGATTA 2024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        53.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: Patentin version 3.2
SEQ ID NO 1308
LENGTH: 424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; LOCATION: (2). (2)
; OTHER INFORMATION: n is a, c,
US-11-000-688-1308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Francois
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS: 1596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
NAME/KEY: misc feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: misc feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-11-000-688-1308
                                                                                                 1314
                                                                                                                                                1592
                                                                                                                                                                                                                                                 1652
                                                                                                                                                                                                  1374
                                                                                                                                                                                                                                                                                                1434
                                            원
                                                                                              ò
                                                                                                                                           요
                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                            쉽
                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     957 GTACAGCCATATTTGTCTATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAA--- 1013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     134 ATGCTTCAAGAGCCATTCCTTTTGGAACAATGGTGGCCGTTTGTTGCATCTGTTTTTTG 1193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1004 GCGCTTTGAAAAGTGATTTCGCTCGGTACAACGAGTTAAACCTAGACGATGACTTCCA-- 1061
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1112 GCCAGTCACTAATGCTCTCCATTTTGGTTGGTTCAGGTGTTCAATTATTTTTGATGGTCA 1171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1172 crigiagrafratritrificciocarradorriccrarceracereradadecercerad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              123 CCACGGTTATGTTCATTCTATATGCCTTATTTGGATTTGTTGGTTCTTACACATCCATGG 1291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1014 GICTGTATGCTAGACAAGGAGGAGATGGATAAAGCAGATGTTTATTGGGGCATTCC 1073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1292 GTATCTACAAATTTTTCGATGGTCCATACTGGAAGGCAAATGTGATCATGACCCCGCTTT 1351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1352 TAGTTCCTGGAGCTATTCTACTAGTAATCATTGCACTGAACTTTTTCTTAATGTTTGTCC 1411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1412 Arrcricregierrariccageaagracricrirrrraregraricriaregrirriar 1471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     rerecarrecerrarearrecreerrecreerrecaecaecaagarereaeregare 1531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 537 ATACTAAAATCCAGATGTCATATTCAGTAAAATGGAAAAAGTCAGATGTGAAATTTGAAG 596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTTTCAACTCCTTCATGATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTAATGA 716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GAACATTAAGAAAAGATTATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATA 776
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          837 GTCACCCACTGATATTTTCCTCTCTGATTGGTTCTGGATGTCAGATATTTGCTGTGTCTC 896
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           897 TCATCGTTATTATTGTTGCAATGATAGAAGATTTATATACTGAGAGGGGATCAATGCTCA 956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     597 ATCGAȚITGACAAAIATCTIGATCCGTCCTIȚITICAACATCGGATTCATTGGTTTTCAA 656
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    890 CCAGATGGGACAAATATTTACA-----CGTTTATGATCCTTCTATCCAATGGTTCTCCT 943
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1074 TTATCCCAGCTATGGTGTGTGCACTGCCTTCTTCATCAATTTCATAGCCATTTATTACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   830 ATAATGAAGTTTATTTTACCTATTCGGTTAAATTCGAGGAATCCCCCACTTCATGGGCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        777 GAGACCTAGGAGATGAATATGGATGGAAACAGGTGCATGGAGATGTATTTAGACCATCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gape
                                                                                                                                                                  APPLICANT: FUJINGRA, TOMOKO
APPLICANT: FUJINGRA, TOSHHHIKO
TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
FILE REFERENCE: 030685-048
CURRENT APPLICATION NUMBER: US/10/932,182A
CURRENT FILING DATE: 2004-09-02
NUMBER OF SEQ ID NOS: 137023
SOFTWARE: Patentin version 3.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 6.6%; Score 120; DB 7; Length 2025; Best Local Similarity 46.2%; Pred. No. 1e-17; Matches 562; Conservative 0; Mismatches 630; Indels 2
                     Sequence 4690, Application US/10932182A
Publication No. US20060046253A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ) ORGANISM: Saccharomyces pastorianus US-10-932-182A-4690
                                                                                              APPLICANT: NAKAO, YOSHIHIRO
APPLICANT: NAKAMURA, NORIHISA
APPLICANT: KODAMA, YUKIKO
US-10-932-182A-4690
                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 4690
TENGTH: 2025
                                                                                                                      APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
```

us-10-755-466-3.rnpbn

1408 60	1468 120	1528 ·	1588 240	1648 300	1708 360	
1349 CCTTTTGGTTCAATCTTTATGAAATGTATTCATCTTCACGTCTTTCTGGGCATATAAG	1409 AICTAITATGTCTATGGCTTCATGATGCTGGTGCTGGTTATCCTGTGGATTGTGACTGTC	1469 TGTGTGACTATTGTGTGCACATATTTTCTACTAATGCAGAAGATTACCGGTGGCAATGG 	1529 ACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACTACTCTTTTACTACTTCTTCCTTC	1589 TATTTTTCAAAACAAAGATGTATGGCTTATTTCAAACATCATTTACTTTGGATATATG 241 TTCTTCTCCAAACTGCAGATCACGGGGACAGCAAGTACAATCCTGTACTTCGGTTATACT	1649 GCGGIAITIAGCACAGCCTIGGGGATAAIGTGTGAGGGATIGGTTACAIGGGAACAAGT 	1709 GCCTTTGTCCGAAAATCTATACTAATGGAAAATTGACTAGAGA 1753 
1349	1409	1469	1529	1589	301	361
& &	දු පු	දු පු	ර් සි	දු පු	දු පු	දු පු

Search completed: March 10, 2006, 22:46:14 Job time : 590.727 secs

## This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS

IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

FADED TEXT OR DRAWING

BLURRED OR ILLEGIBLE TEXT OR DRAWING

SKEWED/SLANTED IMAGES

COLOR OR BLACK AND WHITE PHOTOGRAPHS

GRAY SCALE DOCUMENTS

LINES OR MARKS ON ORIGINAL DOCUMENT

<b>IMAGES ARI</b>	E BEST	AVAIL	ABLE	COPY.
-------------------	--------	-------	------	-------

☐ OTHER: \_

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.

REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY